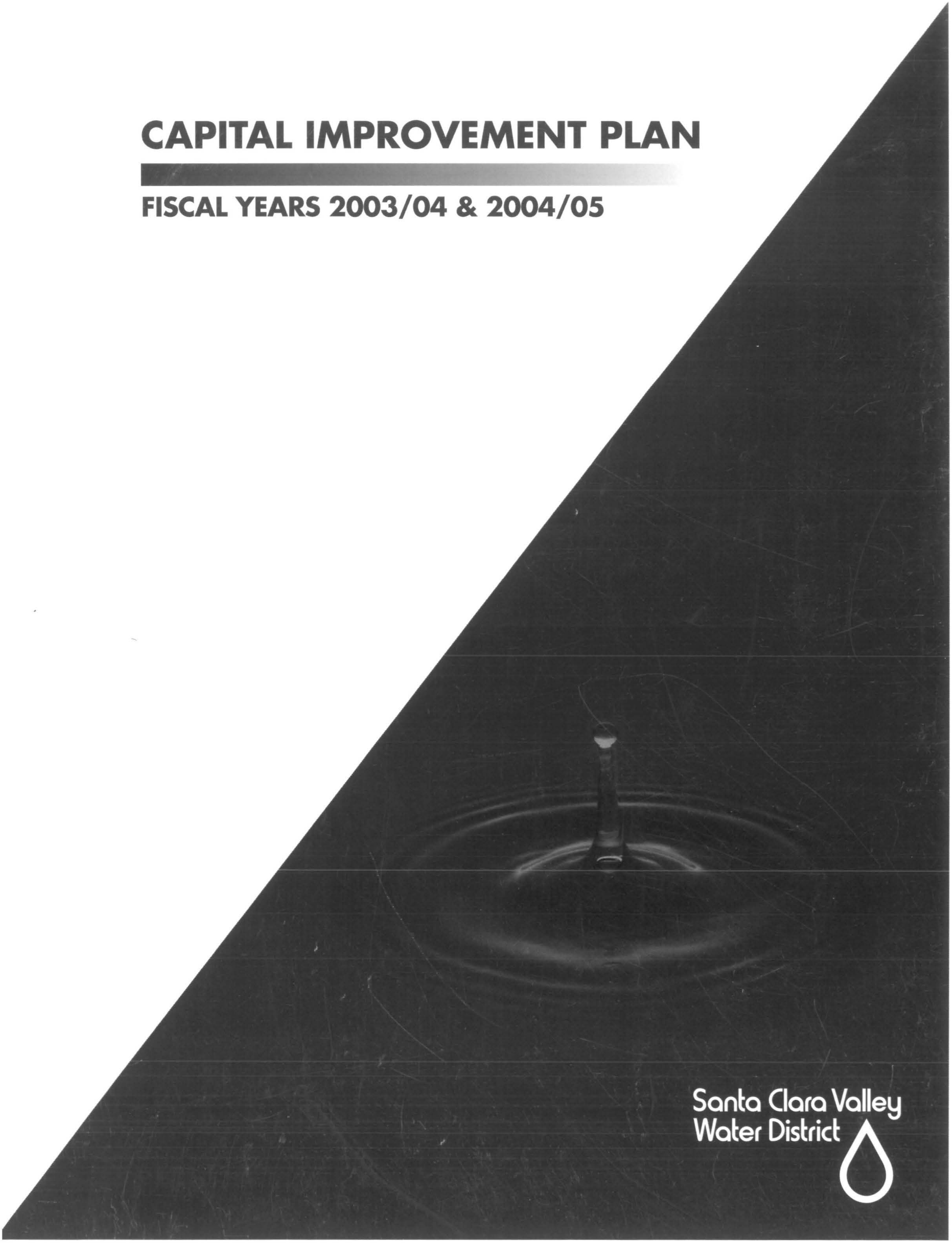
CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05



Santa Clara Valley
Water District

Fiscal Years
2004 & 2005

15-YEAR CAPITAL IMPROVEMENT PLAN

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Prepared by:
Christy Williams
Senior Management Analyst
Capital Program Services Divsiion

Under the Direction of:
Nai Hsueh
Deputy Operating Officer
Capital Program Services Division

Walt L. Wadlow
Chief Operating Officer

Paul D. Romero
Chief Administrative Officer

Stanley M. Williams
Chief Executive Officer

Board of Directors:
Sig Sanchez, Chair
At Large
Joe Judge, Vice Chair
District 2
Rosemary C. Kamei
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District 3
Larry Wilson
District 4
Gregory A. Zlotnick
District 5
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At Large

Santa Clara Valley
Water District

15–YEAR CAPITAL IMPROVEMENT PLAN

We thank all the staff who gave their time to provide information, suggestions, and review. Their contributions were invaluable in helping us complete the Fiscal Years 2004 and 2005 Capital Improvement Plan.

Capital Program Services Division
Bal Ganjoo
Belinda Allen
Benjamin Villanueva
Beth Redmond
Bobbi Gee
Bobby Tan
Dave Kudna
Debra Butler
Dennis Cheong
Donna Collins
Gary Kawaoka
George Fowler
Janet Little
Jim Wang
Joe Chen
Karen Uyeda
Katherine Oven
Kurt Arends
Liang Lee
Luis Ortiz
Martin Gamez
Merisa Merino
Mike Munson
Ngoc Nguyen
Patrick Stanton
Randy Talley
Shola Idowu
Tamra Zozaya
Tim Nguyen
Tim Yung

Business Resources Division
Debra Bancroft
Joe Atmore
Joy Lim
Peter Ng
Ronald Mayorga
Stacy Klopfer

Information Management Division
Bill Knoff
Mark Li
Seth Johnson

Office of Chief Operating Officer
Bill Hoeft
Darin Taylor
John Ryan
Linda Louis

Technical Services Division
Frank Maitski
Suzy Leach

Watershed Management Division
Al Guervich
Beau Goldie
Dave Chesterman
Debra Caldon
Dipankar Sen
Jason Christie
Jenny Micko
Jim Fiedler
Joanne Jin
Jose Ortiz
Marc Klemencic

Water Supply Management Division
Hossein Ashktorab
Jeff Micko
Joan Maher
Keith Whitman
Melanie Richardson
Pam John

Water Utility Operations Division
Dave Hook
Dolores Baker
Gary Miller
Mike Hamer
Ray Yep
Sandy Oblonsky
Stan Kaut

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

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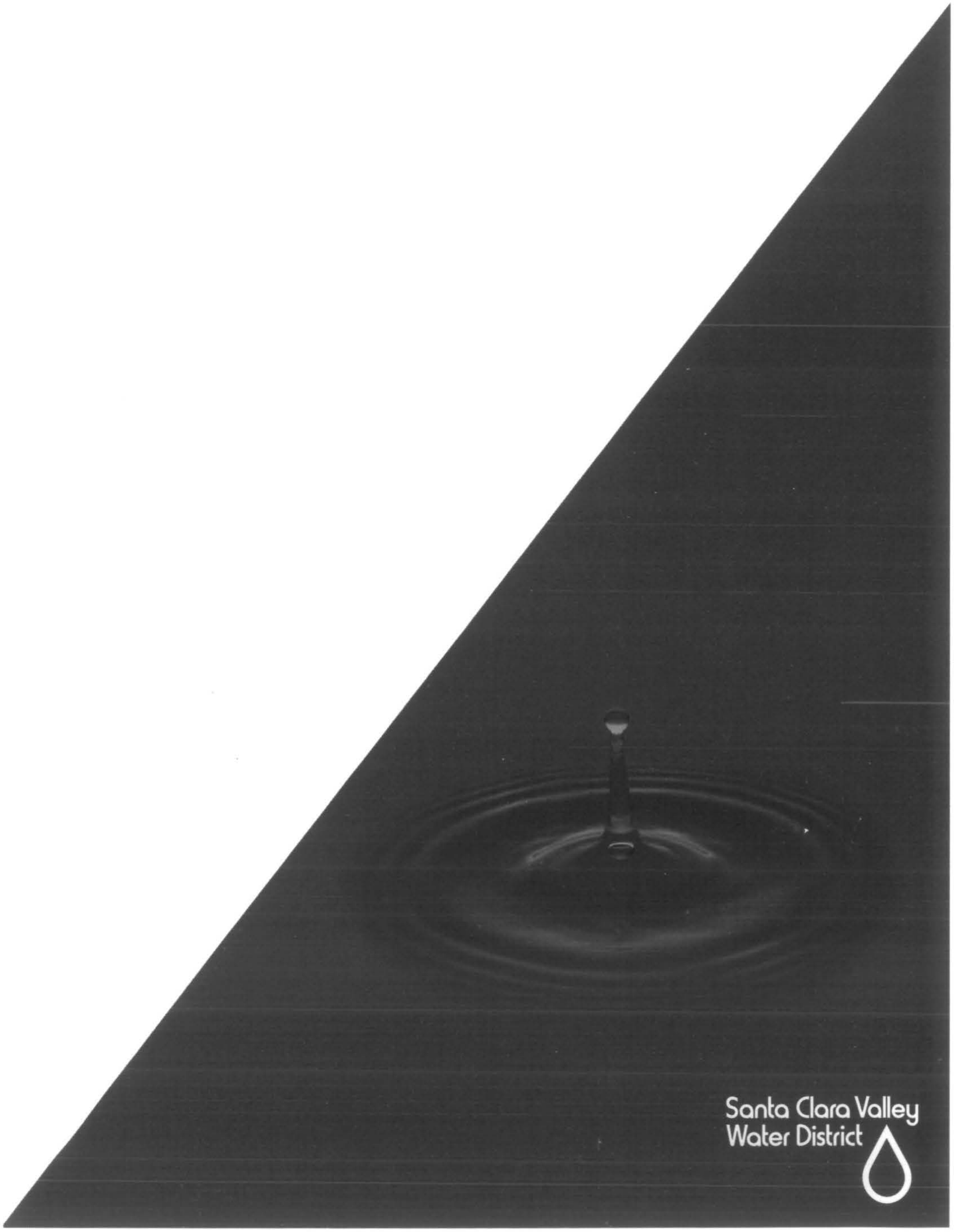

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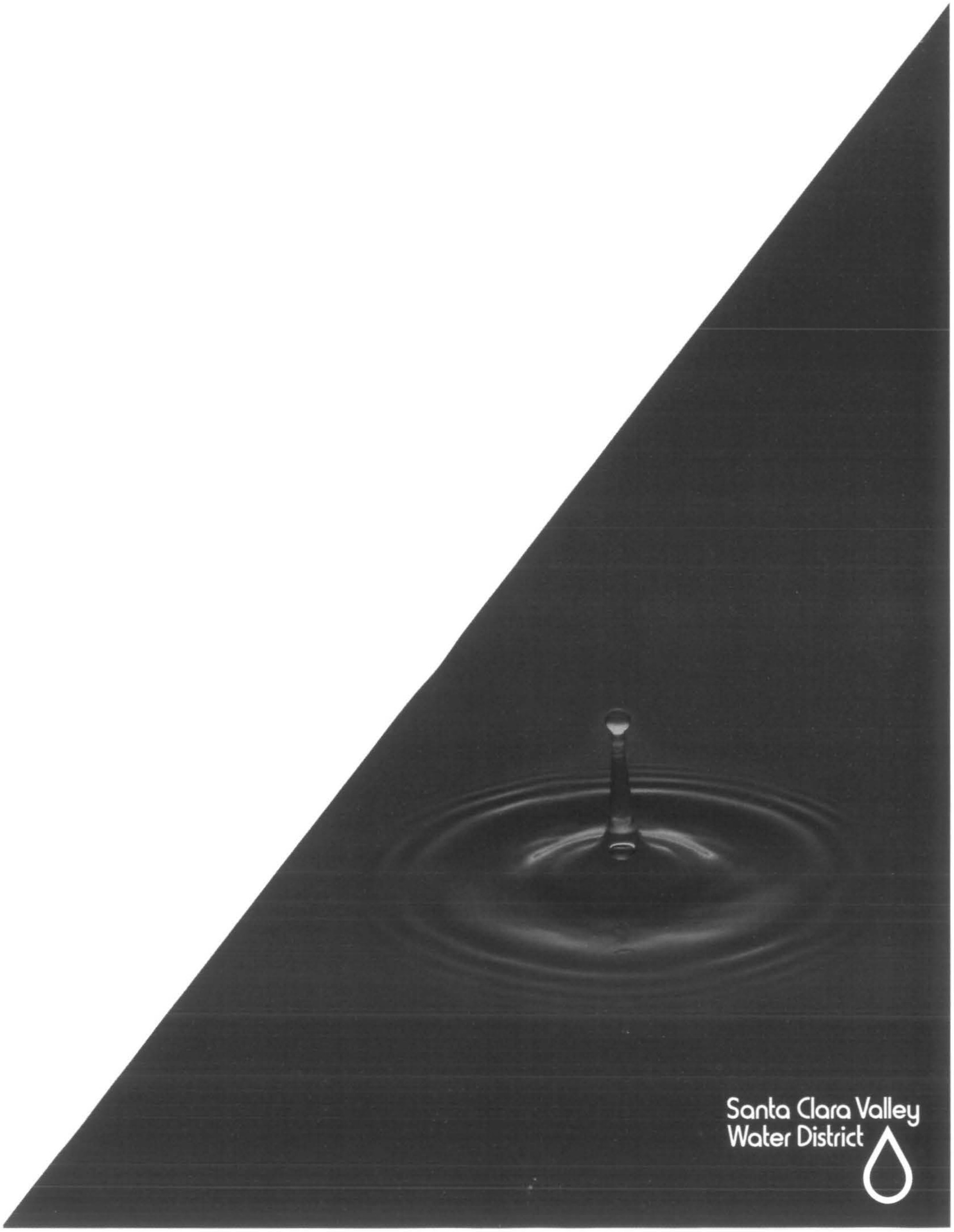
Santa Clara Valley
Water District

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

CIP Overview



Santa Clara Valley
Water District

15-YEAR CAPITAL IMPROVEMENT PLAN

PURPOSE OF CIP

PRIMARY PURPOSE

The CIP serves as the District's long-term capital investment plan. It is a tool for staff to plan and make recommendations to the Board on key financial commitments to construct new facilities

SECONDARY PURPOSE

The CIP serves as the basis for the District to plan for future staff resource and consultant needs, future core competency and staff development needs.

CHARACTERISTICS OF CIP

STAFF DOCUMENT

The CIP is designed to be a staff-level planning document.

CONTINUOUS UPDATE

To provide useful and accurate information, the CIP will be updated quarterly to reflect changes in schedule and cost projections, funding sources, and planning assumptions. Additionally, the CIP will be updated to include new capital projects. New capital projects will be reviewed, approved, and prioritized against projects already in the CIP before they are added to the CIP.

MULTI-YEAR PLAN

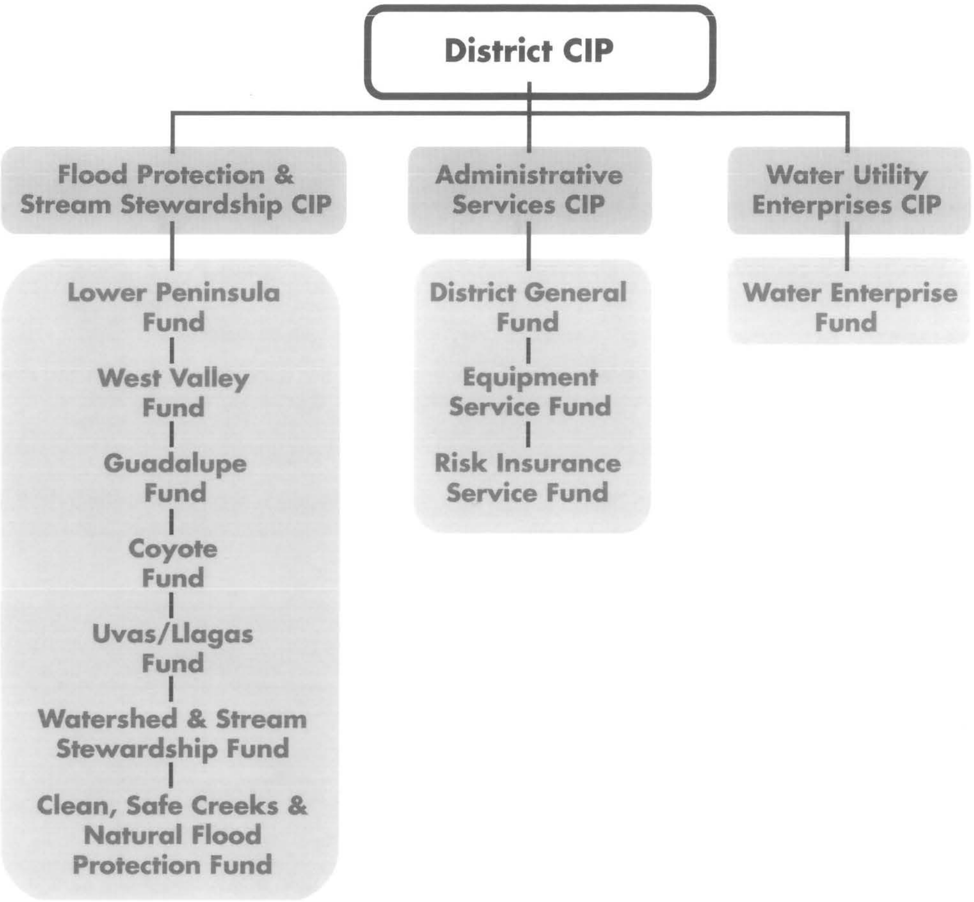
To demonstrate staff's commitment to implement the voter approved Flood Protection and Stream Stewardship Program, the CIP's planning horizon for the Watershed Capital Program is from current fiscal year to fiscal year 2016. The planning horizon for the Water Utility Capital Program is 10 years.

ORGANIZATION

There are three sub-programs within the District's CIP. Each has its own capital improvement program. They are:

- Flood Protection and Stream Stewardship Program
- Administrative Services Program
- Water Utility Enterprise Program

Each sub-program relies on various financial resources to fund its capital improvement program. These financial resources are designated by "Fund." Since the primary purpose of the CIP is to serve as the District's long-term capital investment plan, the entire document is organized by "Fund." Following is a schematic description of the organization of the CIP.


District CIP
Flood Protection & Stream Stewardship CIP
Administrative Services CIP
Water Utility Enterprises CIP
Lower Peninsula Fund
West Valley Fund
Guadalupe Fund
Coyote Fund
Uvas/Llagas Fund
Watershed & Stream Stewardship Fund
Clean, Safe Creeks & Natural Flood Protection Fund
District General Fund
Equipment Service Fund
Risk Insurance Service Fund
Water Enterprise Fund

FINANCIAL OVERVIEW OF CIP

The estimated capital investment to complete current and future capital projects identified in this CIP is $1,238.8 million. This estimated total investment is presented in the following charts by:

- Three Sub-Programs - Chart 1
- Eleven Funds - Chart 2
- Appropriation Schedule - Chart 3
- Fiscal Year - Chart 4

Chart 1

Santa Clara Valley Water District CIP
15–Year Capital Investment
Fiscal Year 2004–Fiscal Year 2016

$1,238.8 million

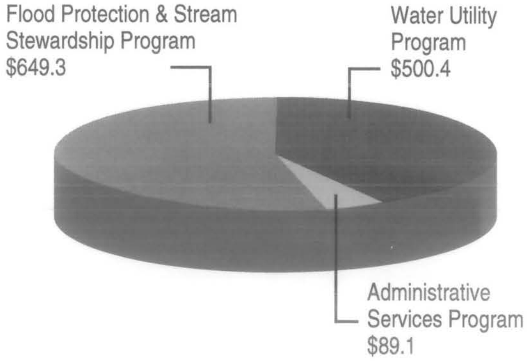


Chart 2

Santa Clara Valley Water District CIP
15-Year Capital Investment by Fund

Fiscal Year 2004–Fiscal Year 2016

$1,238.8 million

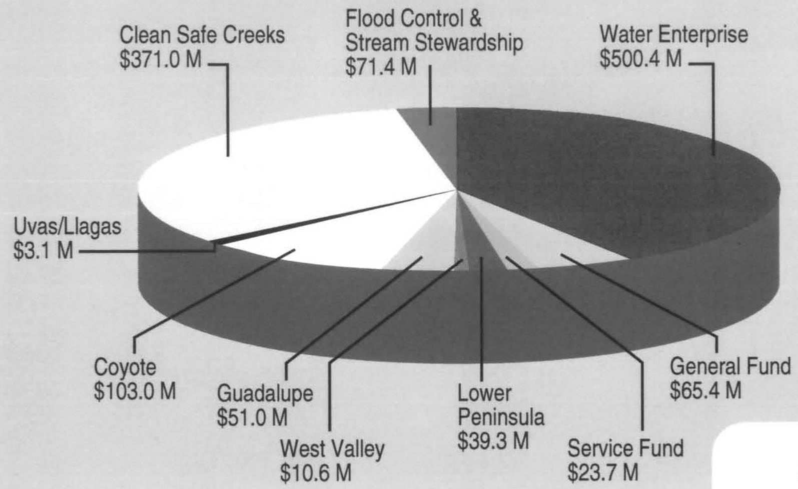


Chart 3

Santa Clara Valley Water District CIP
15–Year Capital Investment

Fiscal Year 2004–Fiscal Year 2016

$1,238.8 million

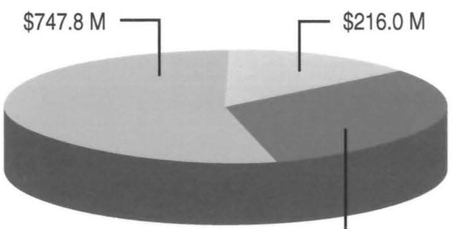
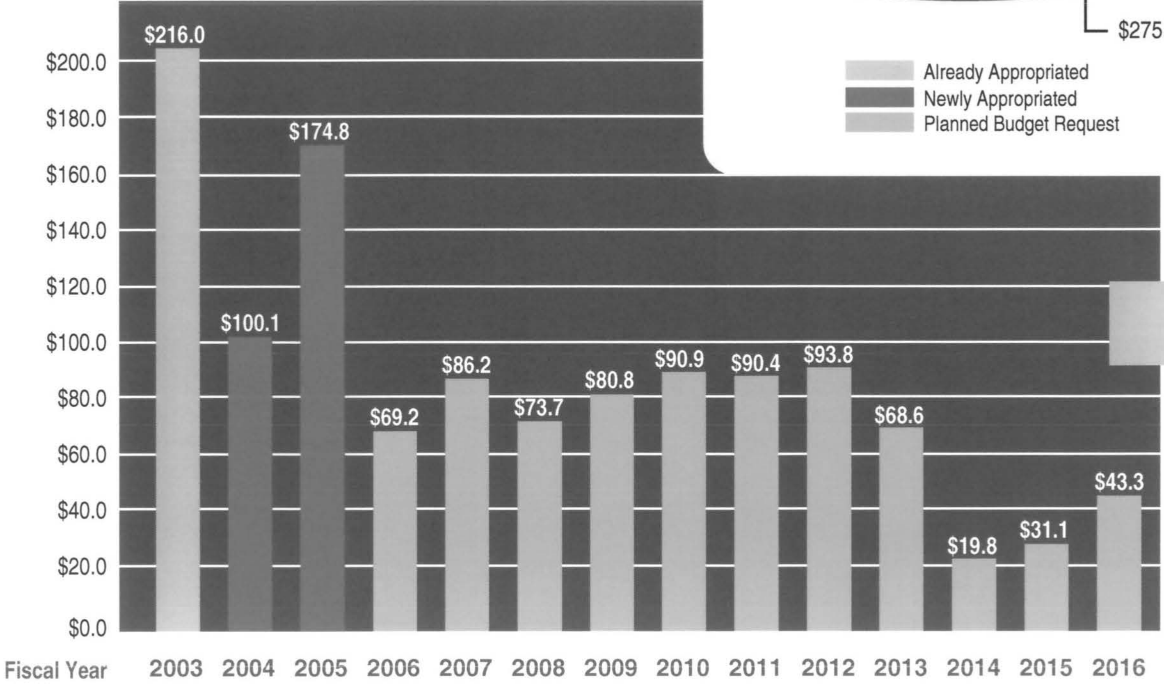


Chart 4

Fiscal Years 2004 15–year CIP
14-Year Annual Funding Requets

Fiscal Year 2004–Fiscal Year 2016

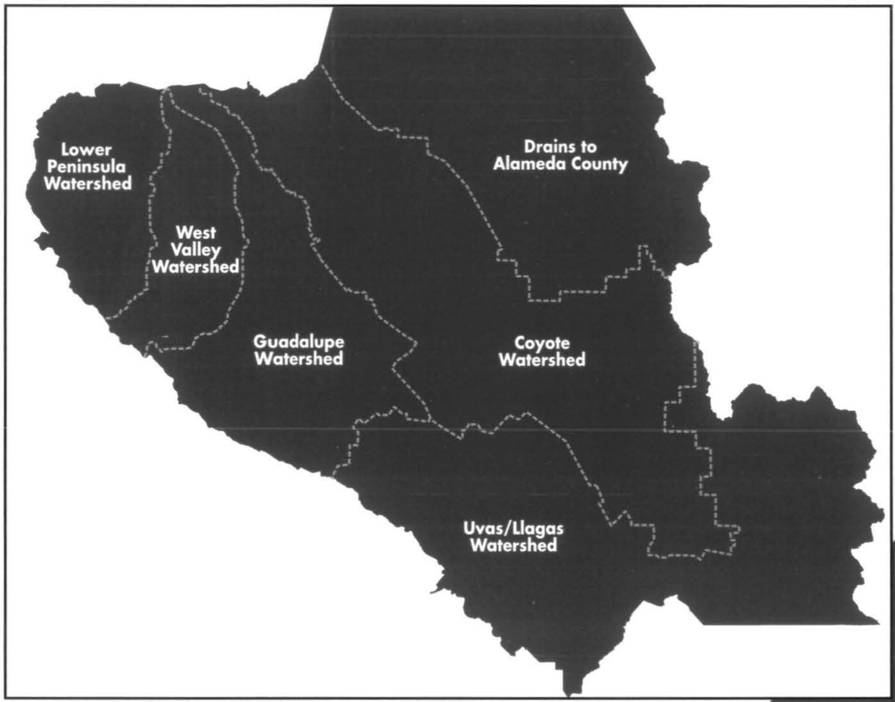
$1,238.8 million

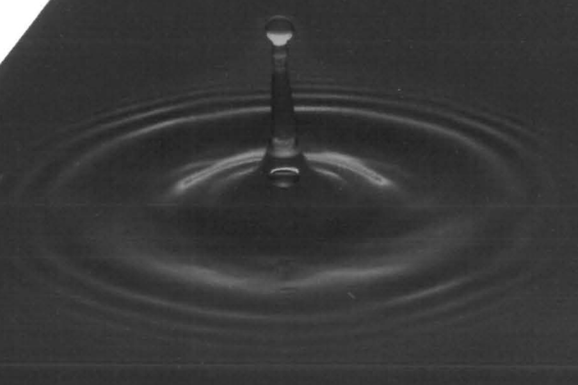


CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Flood Protection & Stream Stewardship





Santa Clara Valley
Water District

FLOOD PROTECTION & STREAMSTEWARDSHIP

PROGRAM OVERVIEW

The District's Flood Protection and Stream Stewardship Program (Program) is a fifteen-year plan, 2001 to 2016, adopted by the Board of Directors and approved by the voters in November 2000. This comprehensive program was developed through a dynamic, ongoing, interactive process involving community input on the Program, staff analysis/refinement of the Program, and Board actions.

Elements of the Program help reduce property damage and disruption to business, and ensure that people can travel to jobs and schools during even the wettest winters. At the same time, the Program improves water quality, restores habitat for wildlife, enhances creek aesthetics and provides new recreational opportunities - all while ensuring a cost-effective investment of taxpayer dollars. In summary, the Program delivers the following four outcomes:

Outcome #1

Homes, schools, businesses and highways protected from flooding and erosion

Outcome #2

Clean, safe water in our creeks and bays

Outcome #3

Creeks and bay ecosystems protected, enhanced or restored

Outcome #4

Additional open spaces, trails and parks along creeks and in the watersheds

CAPITAL IMPROVEMENT PROGRAM

The Capital Improvement Program plays an important role in accomplishing the four outcomes of the District's Flood Protection and Stream Stewardship Program. Detailed description of the capital improvement program for each of the seven Flood Protection and Stream Stewardship funds, including major projects completed, and the scopes, schedules and costs of the current and future projects are provided in the following sections. Each section represents one of the seven funds within the Flood Protection and Stream Stewardship Program.

FINANCIAL OVERVIEW

There are seven funds that collectively finance all activities of the Program. Each fund was established to account for specific revenue sources that can only be used to finance predefined activities. Therefore, each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures and expenses.

The five watershed funds and the Clean, Safe Creeks Fund are special revenue funds. They are used to account for specific revenue sources, the voter-approved Benefit Assessment revenue for the five watershed funds, and the special tax revenue for the Clean Safe Creeks Fund.

The Watershed and Stream Stewardship Fund receives a portion of the District's ad volerem tax as its revenue source.

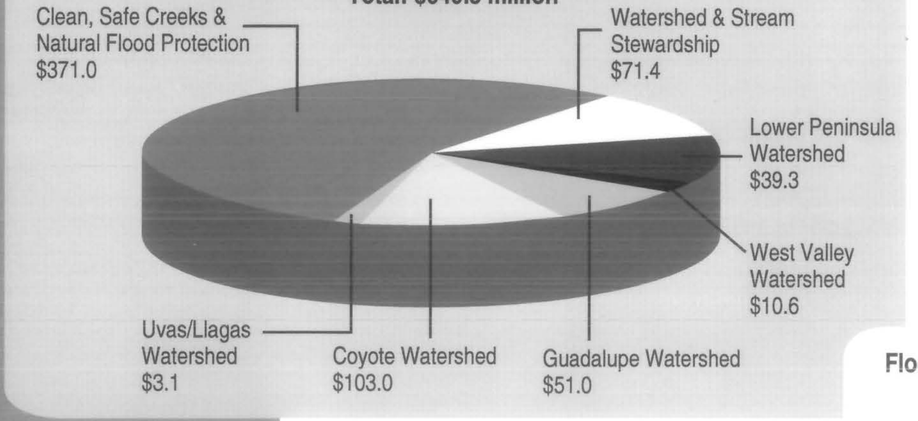
Seven Funds Collectively Finance the Program

Lower Peninsula Watershed Fund
West Valley Watershed Fund
Guadalupe Watershed Fund
Coyote Watershed Fund
Uvas/Llagas Watershed Fund
Clean, Safe Creeks & Natural Flood Protection Fund
Watershed and Stream Stewardship Fund

Distribution of the estimated capital investments to finance the current and future capital projects among the seven funds is shown in the following pie-chart.

Flood Protection & Stream Stewardship Program
14–Year Capital Investment by Fund
Fiscal Year 2004–Fiscal Year 2016

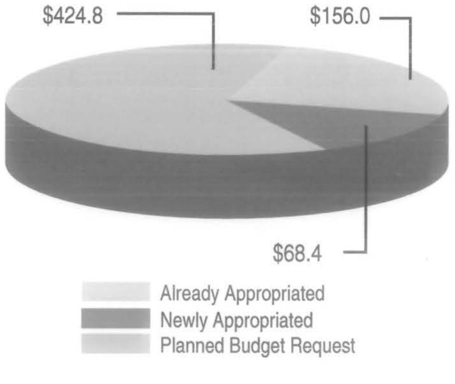
Total: $649.3 million



As shown in the following pie chart, the estimated capital investments come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

Flood Protection and Stream Stewardship Program
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

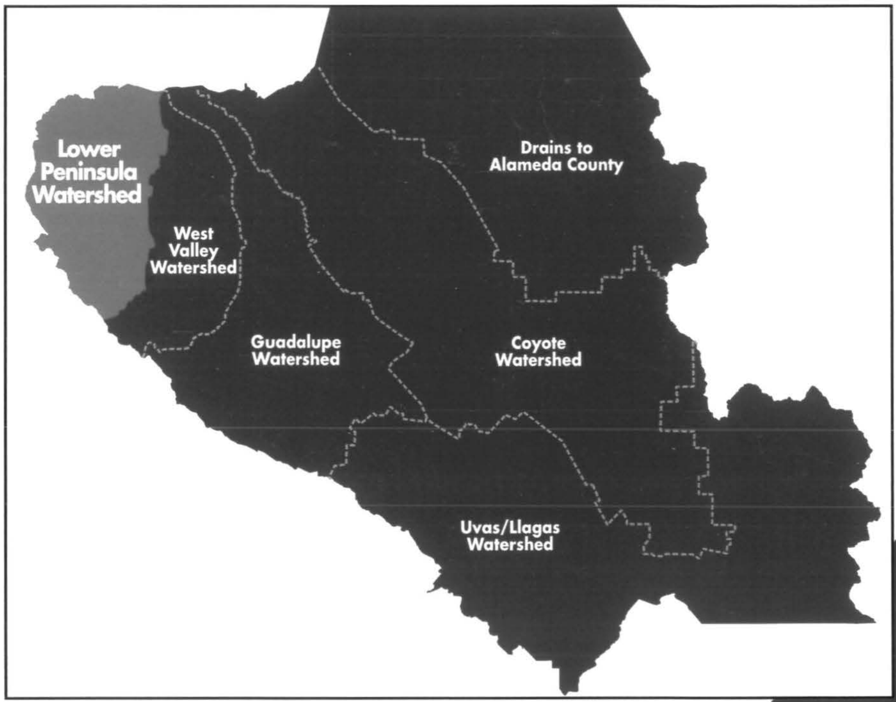
Total $649.3 million

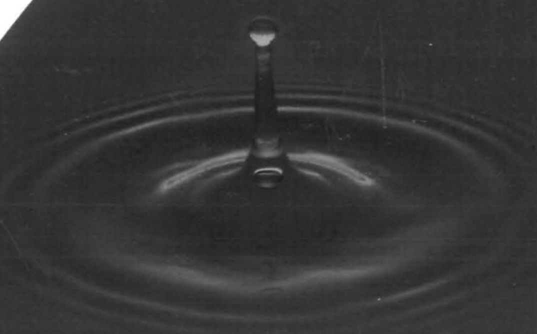


CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Lower Peninsula Watershed Fund





Santa Clara Valley Water District

LOWER PENINSULA WATERSHED FUND

FUND OVERVIEW

The Lower Peninsula Watershed Fund is a special revenue fund. It was initially established to account for the Northwest Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Lower Peninsula Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The Lower Peninsula Watershed encompasses the northwest area of the Santa Clara County, including Stanford University and the cities of Palo Alto, Mountain View, Los Altos, Los Altos Hills and part of Cupertino and Sunnyvale.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Lower Peninsula Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - COMPLETED

- Adobe Creek from Palo Alto Flood Basin to El Camino Real
- Matadero Creek from Palo Alto Flood Basin to Bol Park
- Barron Creek from Palo Alto Flood Basin to Bol Park
- San Francisquito Creek Levee Restoration Downstream of Highway 101
- Stevens Creek Drop Structure Upstream of Highway 85

MAJOR PROJECTS - CURRENT

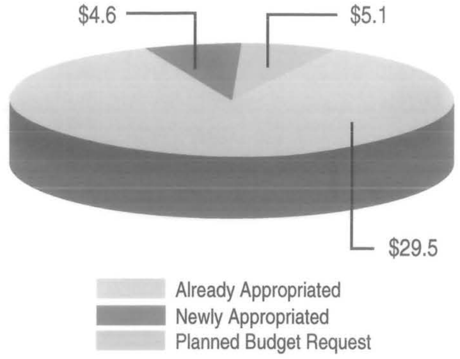
- Adobe Creek from El Camino Real to Rhus Ridge
- Matadero/Barron Creeks Remediation
- Permanente Creek Planning Study from San Francisco Bay to Foothill Expressway
- San Francisquito Creek Planning Study from San Francisco Bay to Searsville Dam
- San Francisco Bay Shoreline Study Federal Grant

MAJOR PROJECTS - FUTURE

No future project identified at this time.

Lower Peninsula Watershed Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

Total $39.3 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
101001S	Adobe Creek-El Camino-Rhus Ridge	12,596	3,611	1,712	327	0	0	0	0	0	0	0	0	0	18,246
102109	Matadero/Barron Creek Remediation	6,558	15,601	1,260	1,226	348	38	51	0	0	0	0	0	0	25,082
102401	Permanente Creek, Bay-Foothill	4,244	6,040	0	0	0	0	0	0	0	0	0	0	0	10,284
102806	San Francisquito Creek, Levee Restoration	3,597	(325)	44	0	0	0	0	0	0	0	0	0	0	3,316
102807	San Francisquito Creek (CSCC), SF Bay-Searsville	1	3,999	0	0	0	2,000	0	2,000	0	0	0	0	0	8,000
102901	Stevens Creek Drop Structure Modifications	2,083	228	0	0	0	0	0	0	0	0	0	0	0	2,311
100426	SF Bay Shoreline Study, Fed Funding	0	0	12	12	0	0	0	0	0	0	0	0	0	24
	Total	30,840	29,547	3,028	1,565	348	2,038	51	2,000	0	0	0	0	0	69,418
	Total (with inflation)	30,840	29,547	3,028	1,565	381	2,294	59	2,388	0	0	0	0	0	70,102
	Capital Investment		29,547	4,593		5,122									39,262

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

No reimbursement for this fund.

FUNDING SOURCES

There are four primary categories of revenue sources available to the Lower Peninsula Watershed Fund for funding capital projects. These sources include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

In the year 2000, the Lower Peninsula Watershed Fund issued Certificates of Participation (COPs) in the amount of $30 million to finance its capital improvement program.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

See San Francisquito Levee Restoration project and San Francisquito Creek from San Francisco Bay to Searsville Dam project for details.

CAPITAL RESERVE

The Lower Peninsula Watershed Fund will have accumulated approximately $5.7 million in its capital reserve at the beginning of FY 2004.

San Francisco Bay Shoreline Study

Pursue Fedeal Funding

Project Number:
100426

Sponsoring Division:
Watershed Management

Project Manager:
Debra Caldon

OVERVIEW

OBJECTIVES

- Pursue Federal funding to conduct projects to provide flood protection to homes and business in the tidal floodplain.
- Coordinate with agencies and appropriate entities in San Mateo, Santa Clara and Alameda Counties to facilitate this work.
- Coordinate with Regulatory Agencies to incorporate environmental protection, restoration and related purposes along the South San Francisco Bay Shoreline.

BENEFITS

- Policy GP-1, Article 1.4 - "To secure the health, safety, and quality of life in Santa Clara County, the District will carry out a prudent flood management program that reduces the potential for flood damage, balances costs and benefits (including possible environmental restoration and enhancement), and comprehensively addresses the expectations of the community."
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK

- Prepare a reconnaissance report on flood protection to homes and businesses in the tidal floodplain along South San Francisco Bay.
- Coordinate with the U.S. Army Corps of Engineers (COE) to pursue Federal assistance for this work.
- Coordinate with local agencies in impacted counties to jointly pursue Federal funding
- Obtain Federal Assistance for flood protection projects.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning		■	■											
Design														
Construction														

Aerial Photograph of the San Francisco Bay Shoreline Study Area.

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
100426	SF Bay Shoreline Study, Federal Funding LP	0	0	12	12	0	0	0	0	0	0	0	0	0	24

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

There is a possibility of cost-sharing with the US Army Corps of Engineers for at least 50 percent of project costs. If cost-sharing is secured, a Project Cooperative Agreement (PCA) will define the formula and reimbursement schedule.

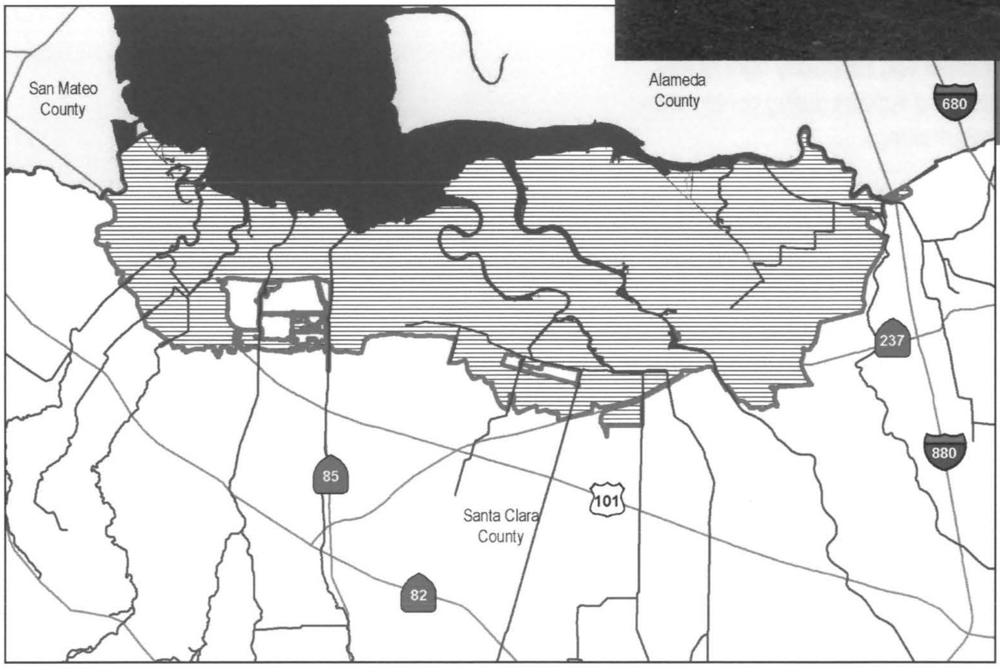
OPERATING BUDGET IMPACTS

No operating impacts are anticipated from this project.

Levee at Permanente Creek downstream of Bayshore Highway.

▆ Project Limits

▤ Project Area



Adobe Creek
El Camino Real to
Rhus Ridge

LOWER PENINSULA WATERSHED

Project Number:
101001, 101005, 101007,
101008, 101009

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide protection against flooding.
- Provide protection against erosion.
- Improve sedimentation transport.
- Protect and enhance the creek ecosystem.
- Provide for fish passage.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements, or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project will provide the following deliverables to meet project objectives:

- detailed civil and environmental design.
- supplemental environmental impact report (EIR).
- plans and specifications.
- permanent and temporary right of way.
- engineering support during construction.
- as-built drawings.

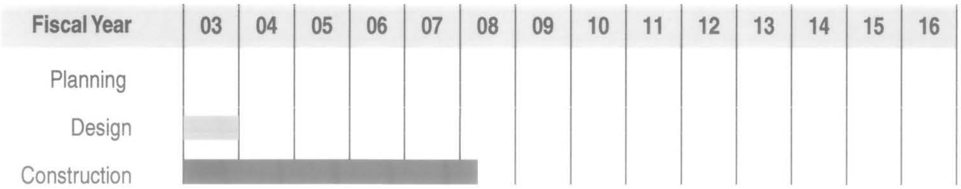
This effort is accounted for in the following job numbers:
101001 = Planning Study, from El Camino Real to Rhus Ridge
101005 = Reach 5 from Foothill Expressway to West Edith (postponed per 7/2/02 Board Direction)
101007 = Reach 11-13 from Foothill College to Rhus Ridge (postponed indefinitely)
101008 = Reach 7-9 from Burke Road to Highway 280
101009 = Reach 1-4 from El Camino Real to Foothill Expressway

SCHEDULE

INITIATION AND COMPLETION DATES

July 1991 to October 2007

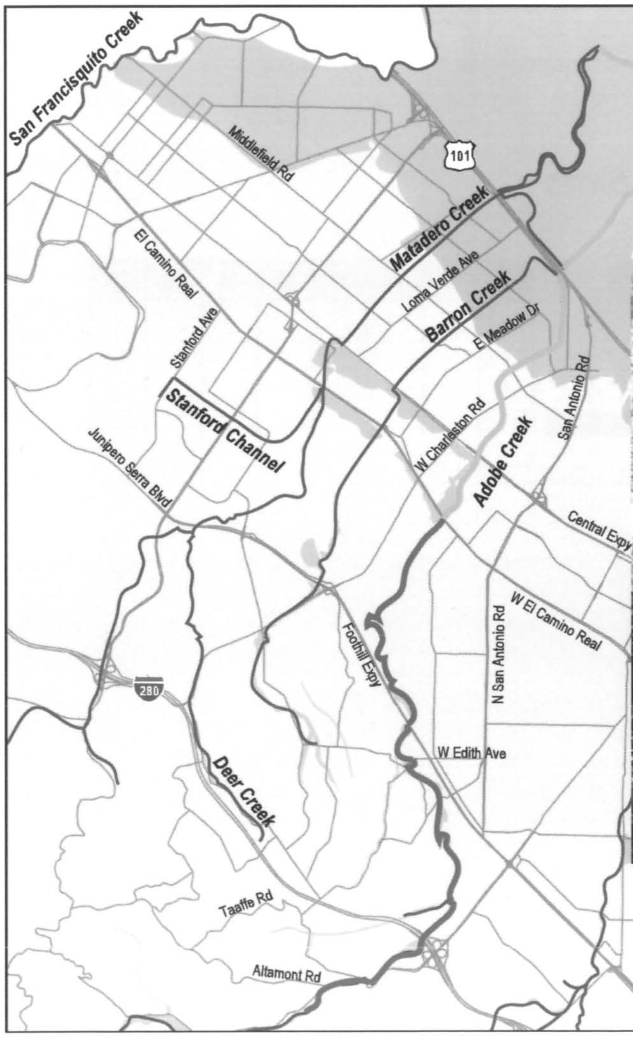
Schedule



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appproprіated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
101001	Adobe Creek, Planning Study	3,199	0	0	0	0	0	0	0	0	0	0	0	0	3,199
101005	Adobe Creek, Foothill-W. Edith (R5)	2,879	155	0	0	0	0	0	0	0	0	0	0	0	3,034
101007	Adobe Creek, Foothill-Col-Rhus Ridge (R11-13)	0	0	20	288	0	0	0	0	0	0	0	0	0	308
101008	Adobe Creek, Burke-280 (R7-9)	1,014	1,153	312	82	0	0	0	0	0	0	0	0	0	2,560
101009	Adobe Creek, El Camino-Foothill Exp. (R1-4)	1,014	1,153	312	82	0	0	0	0	0	0	0	0	0	2,560
Total		12,596	3,611	1,712	327	0	0	0	0	0	0	0	0	0	18,246

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



▨ Project Limits

▨ Construction Completed

▨ 1 Percent Floodplain

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts from the construction of this project are expected to be insignificant. The project will repair several erosion sites to reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

Typical erosion site along reaches 1-4 of Adobe Creek. Project will repair the site using boulder rip-rap to restore the original bank.

Matadero/Barron Creek Remediation

Palo Alto Flood Basin to Foothill Expressway

Project Number:
102109

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

To provide one-percent flood protection with adequate freeboard from flows in Barron and Matadero Creeks, from the Palo Alto Flood Basin to Foothill Expressway.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.2 - "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits."
- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."

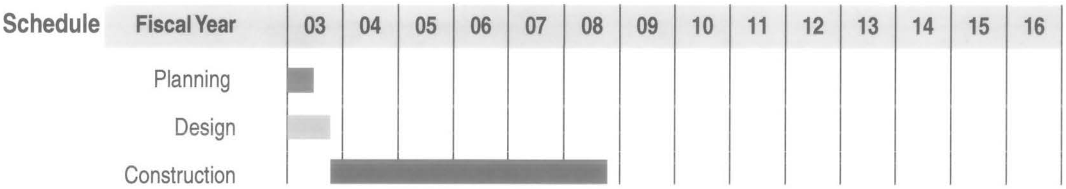
SCOPE OF WORK

This project plans, designs, acquires right-of-way, constructs, and acquires a Letter of Map Revision to be certified by FEMA for the Matadero Creek project from Palo Alto Flood Basin to Foothill Expressway. Deliverables include a project plan, engineer's report, environmental impact report, conditional letter of map revision, permits from regulatory agencies, plans and specifications, and flood insurance rate map revision.

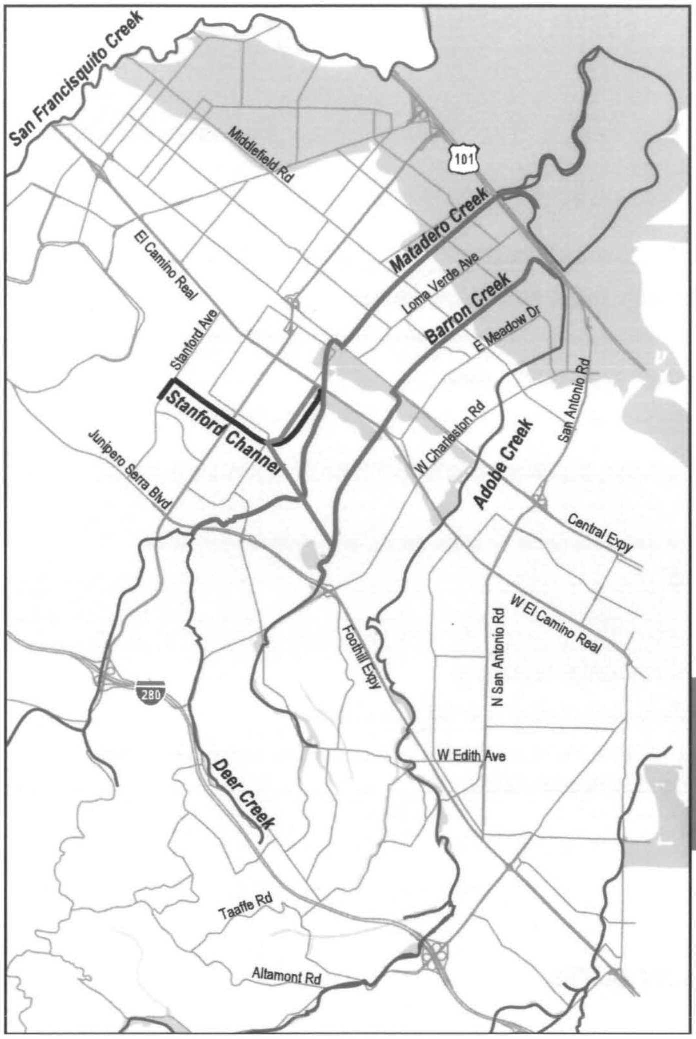
SCHEDULE

INITIATION AND COMPLETION DATES

March 1999 to March 2008



Matadero Creek looking downstream at Louis Road showing existing concrete channel lining with floodwalls. Proposed project includes channel widening and raising existing floodwalls.



Existing Matadero Creek channel, looking downstream from Hwy 101

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
102109	Matadero/Barron Creek Remediation	6,558	15,601	1,260	1,226	348	38	51	0	0	0	0	0	0	25,082

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

This project will construct a bypass channel near the Palo Alto Flood Basin. The bypass channel will be mainted routinely to remove sediment and vegetation. The estimated annual cost is $30,000.

Permanente Creek

San Francisco Bay to
Foothill Expressway

Project Number:
102401

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection, reduce erosion and sedimentation, and reduce maintenance costs on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Conduct planning study including environmental clearances.
- Design, prepare plans and specifications, and acquire needed right of way.
- Construction of the approved project will be done in a separate project number and will be funded by Clean Safe Creeks and Natural Flood Protection funds.

SCHEDULE

INITIATION AND COMPLETION DATES

January 1998 to June 2008
(Planning and preliminary design only.)

Schedule

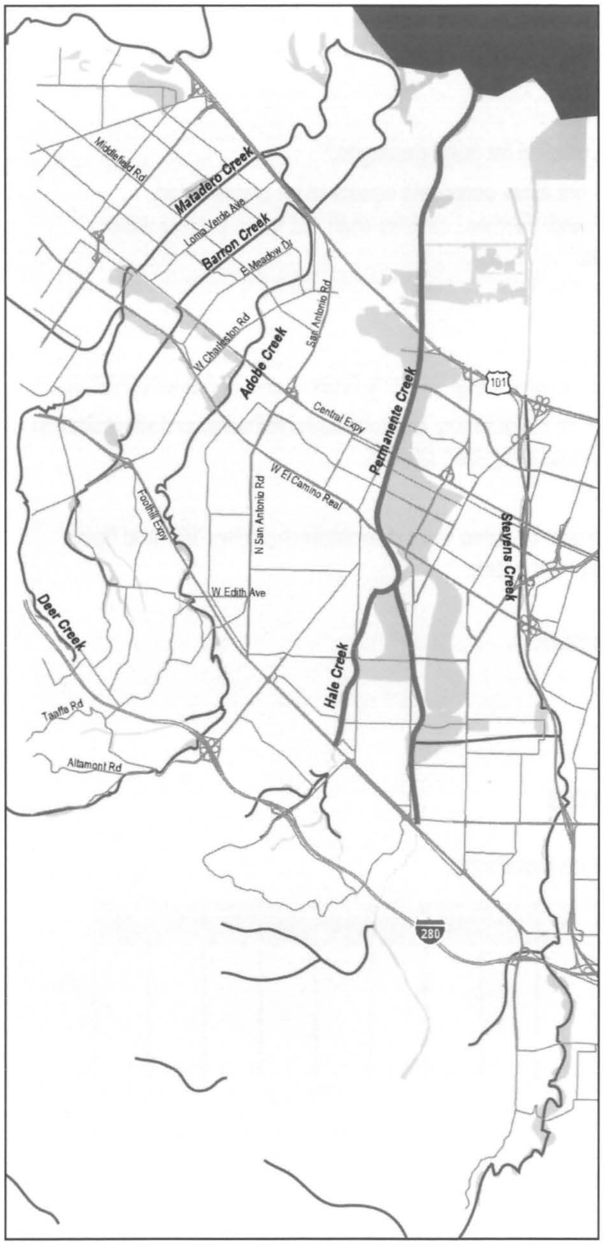
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	▨	▨	▨	▨	▨									
Design				▨	▨	▨								
Construction														

Looking upstream at the golf course foot bridge.

COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
102401	Permanente Creek, Bay-Foothill	4,244	6,040	0	0	0	0	51	0	0	0	0	0	0	10,284

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



■ Project Limits

▨ 1 Percent Floodplain

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts from the construction of this project are expected and will be developed during the planning study.

San Francisquito Creek Levee Restoration

Project Number:
102806

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Restore the existing levee downstream of Hwy 101 to the 1958 as-built elevations.
- Mitigate for any environmental impacts resulting from the construction.
- Mitigate for any adverse flooding impacts resulting from restoring the levee heights.
- Identify Best Management Practises (BMPs) to provide clean water to the creek.
- Identify in the plan opportunities for trails, parks, and open space.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy EL-7, Article 7.9 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked. Further... he/she shall not fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

This project requires the District to:

- Complete a hydraulic analysis using Hydraulic Engineering Center's River Analysis System (HECRAS).
- Participate in CEQA process, including a plan to mitigate any environmental impacts, and identification of any "induced" flooding impacts with appropriate mitigation options.
- Participate in obtaining all necessary permits.
- Prepare construction drawings and specifications for levee work downstream of Hwy 101 and flood walls upstream of Hwy 101 on Palo Alto side of the creek.
- Participate in advertising the project.
- Participate in managing construction of the project.

SCHEDULE

INITIATION AND COMPLETION DATES

October 2000 to December 2005

This completion date includes 3 years of mitigation monitoring.

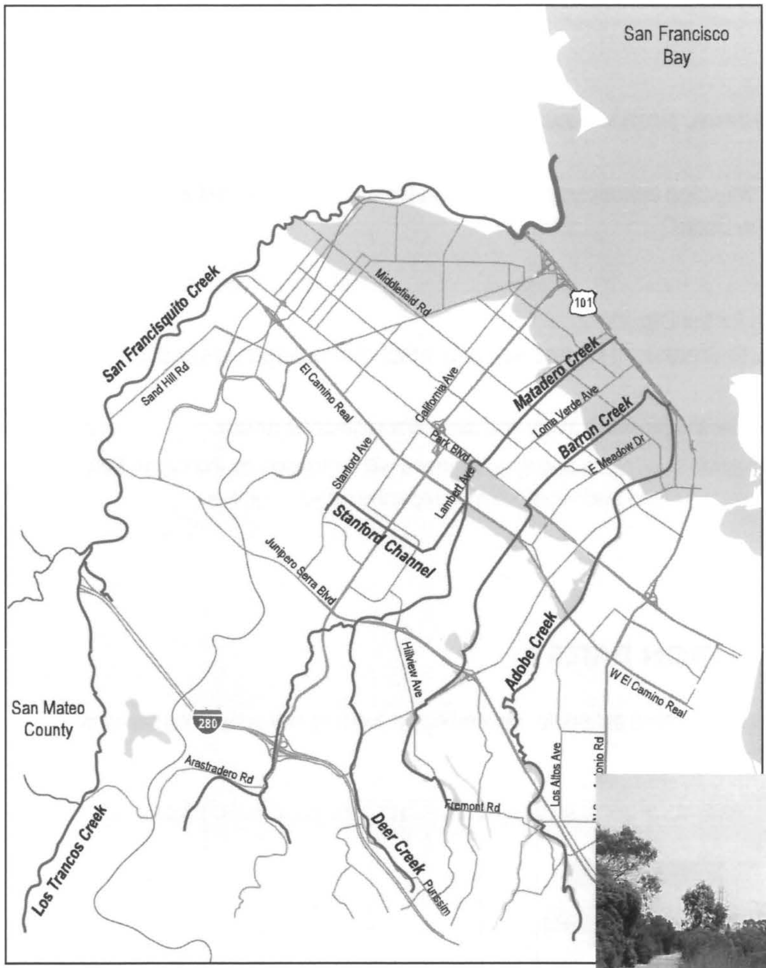
Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■	■	■										

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
102806	San Francisquito Creek, Levee Restoration	3,597	(325)	44	0	0	0	0	0	0	0	0	0	0	3,316

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Joint Power Authority, City of East Palo Alto, San Mateo County Flood Control District and City of Palo Alto.

COST SHARING FORMULA
Agencies on each side of the creek are responsible for the costs of their side. San Mateo Flood Control District will furnish the environmental documents.

REIMBURSEMENT SCHEDULE
Not applicable

OPERATING BUDGET IMPACTS
There are no significant impacts to the operating budget resulting from this project.

■ Project Limits

▨ 1 Percent Floodplain

San Francisquito Creek, near the Bay, looking upstream.

San Francisquito Creek

San Francisco Bay to Searsville

Project Number:
102807

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide planning and design for flood protection, erosion control and sedimentation control on San Francisquito Creek from San Francisco Bay to the Searsville Dam.
- Identify environmental restoration and enhancement benefits, where opportunities exist.
- Identify recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.3 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

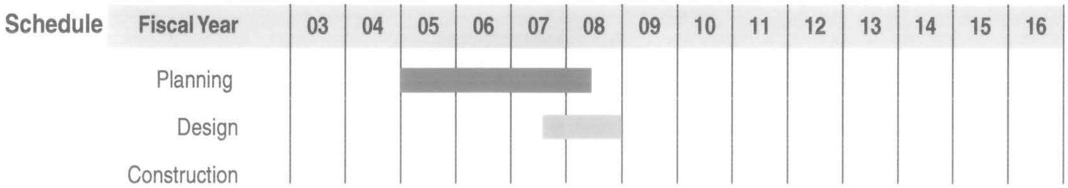
This project will provide funding for the District to:

- Work with the San Francisquito Creek Joint Powers Authority, other member agencies and the Corps of Engineers.
- Conduct all activities to complete the planning study, including environmental review.
- Begin design. Design and preparation of plans and specifications will be funded by the Clean Safe Creeks and Natural Flood Protection fund and recorded in a separate project number.

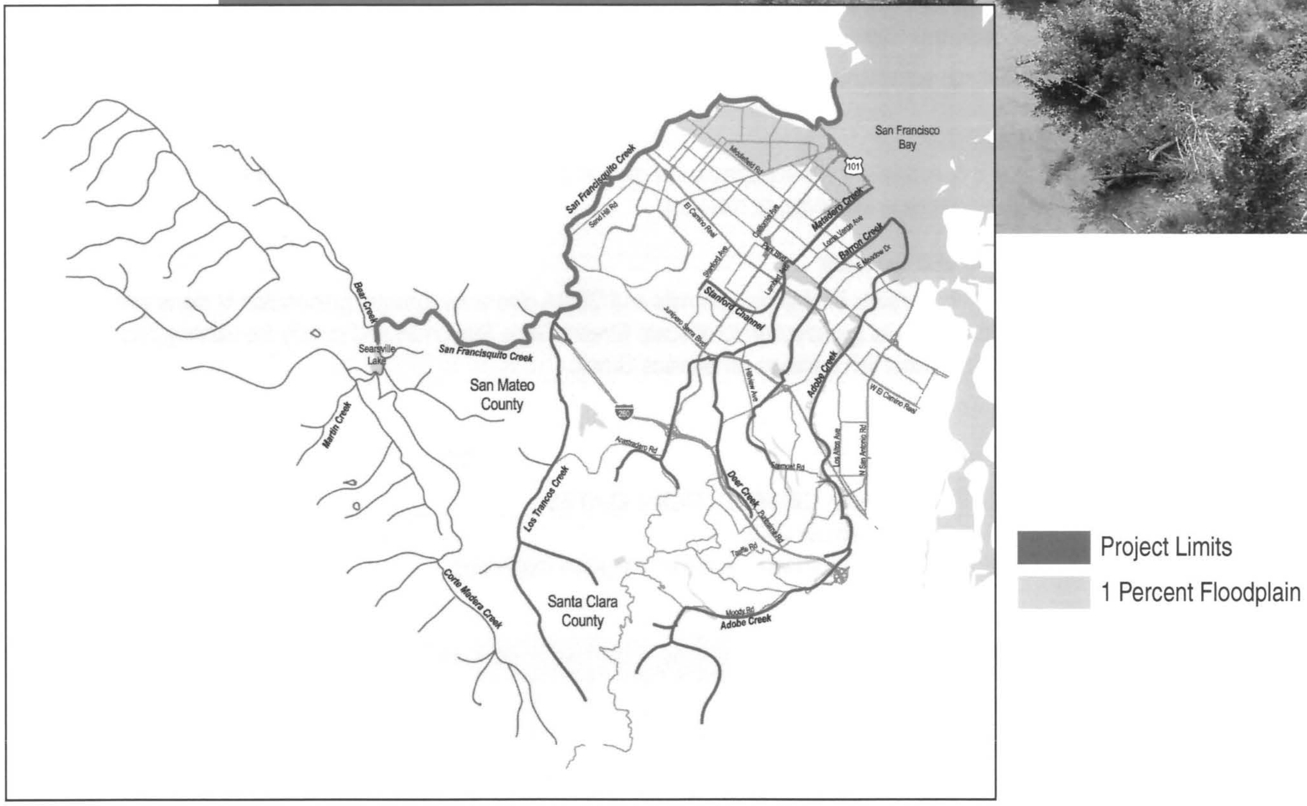
SCHEDULE

INITIATION AND COMPLETION DATES

July 2004 to June 2008
(Planning and design phases only. Tentative schedule, depending on funding and scope negotiations with COE.)



San Francisquito Creek looking downstream from the Waverly Street Bicycle Bridge between Middlefield Road and El Camino.



COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
102807	San Francisquito Creek, (CSC), SF Bay-Searsville	1	3,999	0	0	0	2,000	0	2,000	0	0	0	0	0	8,000

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating impacts are anticipated and will be developed during the planning study.

Stevens Creek
Drop Structure Modifications
Highway 85

Project Number:
102901

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide for improved upstream and downstream migration of steelhead trout on Stevens Creek, upstream of Highway 85.
- Continue establishing good working relationships with regulatory agencies and local organizations.

BENEFITS

Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

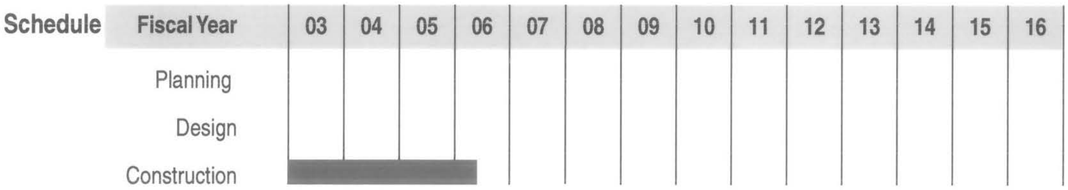
SCOPE OF WORK

This project consists of obtaining permits and CEQA clearance, design, preparation of plans and specifications, and construction to relocate Stream Gage Station 35 and modify the existing drop structure to allow fish passage on Stevens Creek.

SCHEDULE

INITIATION AND COMPLETION DATES

August 2000 to December 2005
This completion date includes 3 years of mitigation monitoring.



View looking upstream of new fish-friendly structure at Stevens Creek after modifications. Stream Gage Station 35 is relocated to the left bank at the upstream end of the drop structure.

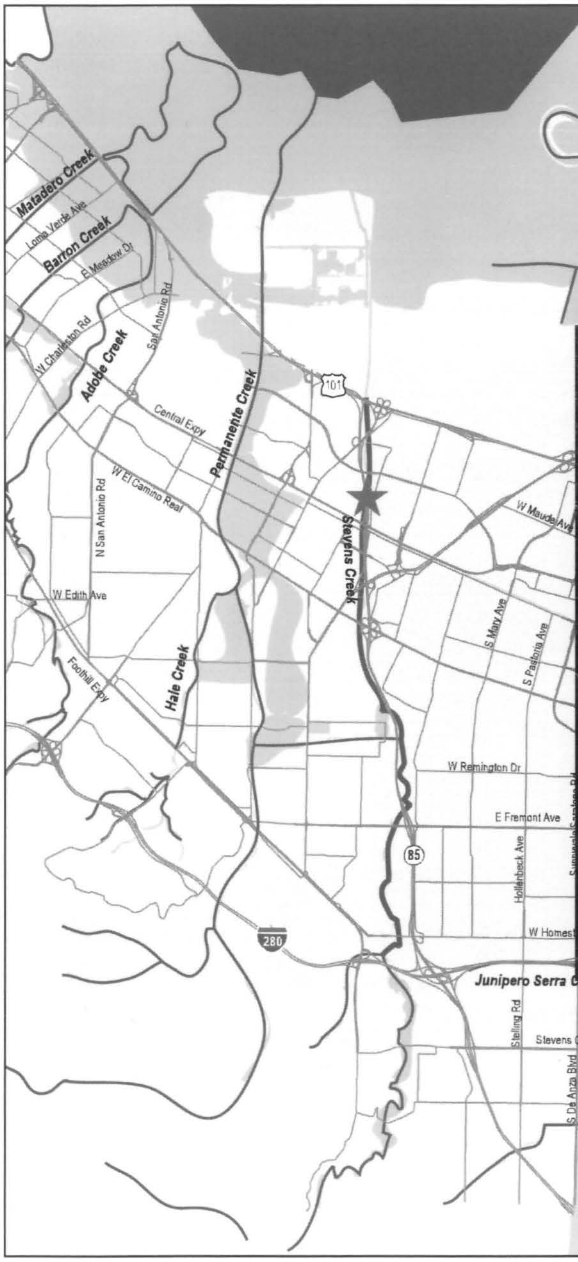
COST
(inThousands $)

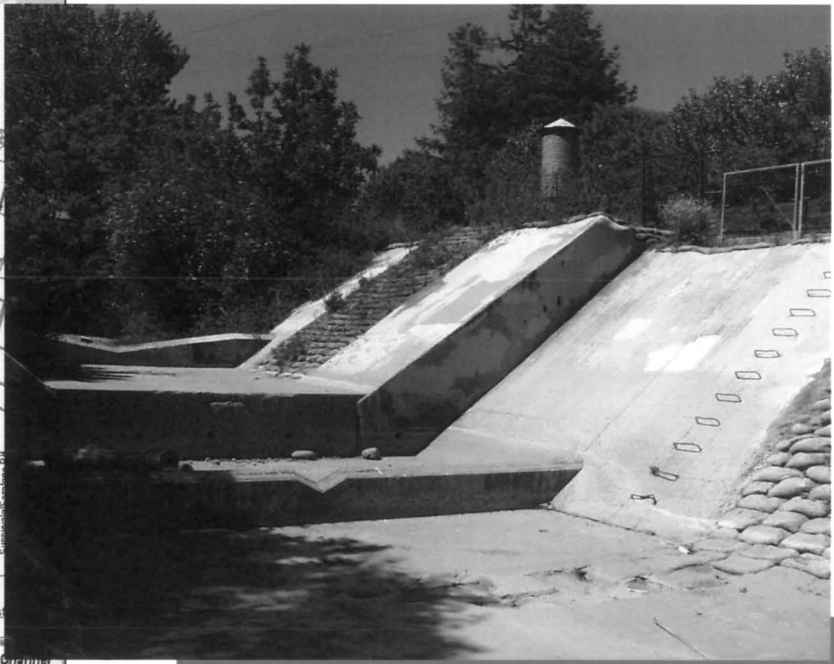
Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	Newly Appropriated 05	Planned Budget Requests 06	07	08	09	10	11	12	13	14-16	Est. Total Cost
102901	Stevens Creek Drop Structure Modifications	2,083	228	0	0	0	0	0	0	0	0	0	0	0	2,311

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
California Department of Fish and Game awarded the District $167,360 for this project. This potential cost sharing has not been included in the funding for the project at this time.

OPERATING BUDGET IMPACTS
No significant impact on the operating budget is expected, due to the limited length of the creek affected.





Looking upstream at Stevens Creek Drop Structure at Stream Gage Station 35 before modifications. The drop structure was identified as a barrier for fish passage.

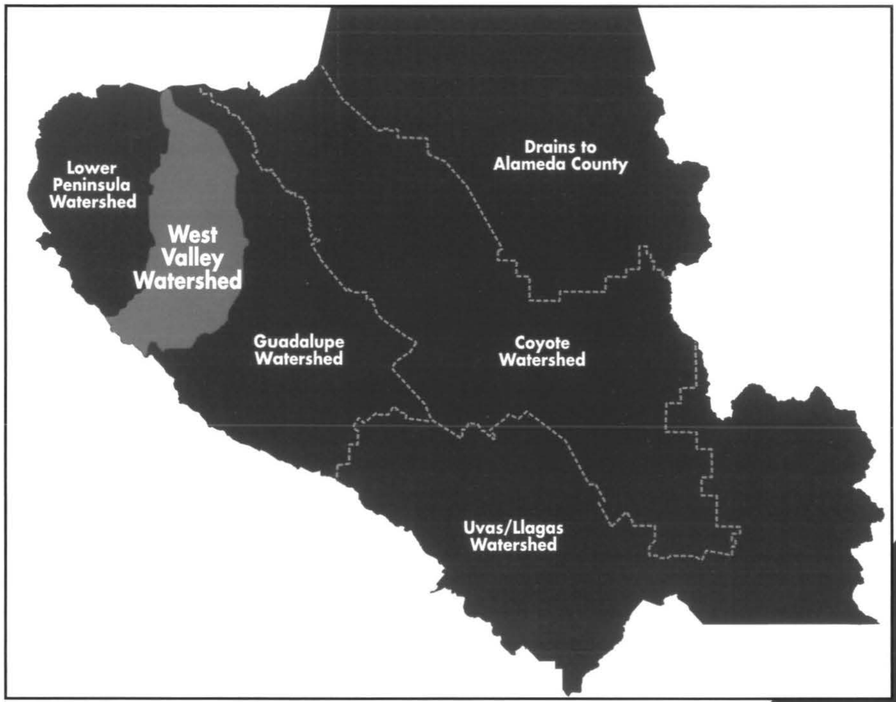
★ Project Location

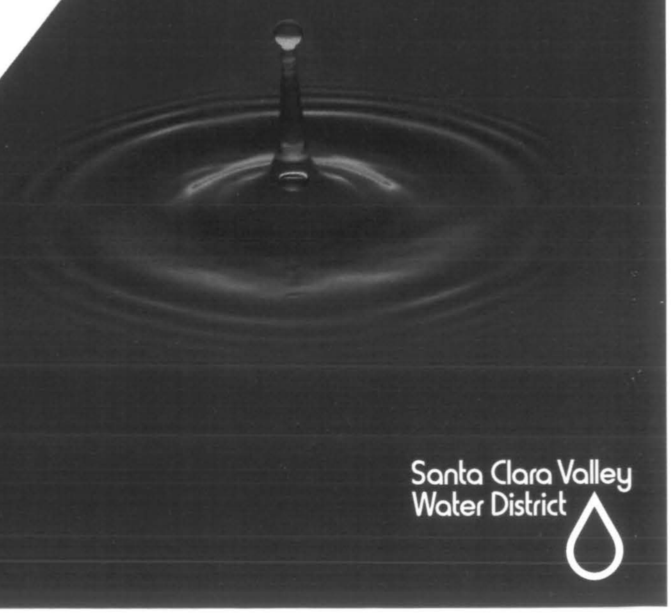
▨ 1 Percent Floodplain

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

West Valley Watershed Fund





Santa Clara Valley
Water District

West Valley

WEST VALLEY WATERSHED FUND

FUND OVERVIEW

The West Valley Watershed Fund (Fund) is a special revenue fund. It was established initially to account for the North Central Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1990 by voters within the West Valley Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The West Valley Watershed encompasses the west part of the Santa Clara County, and includes the cities of Saratoga, and parts of the cities of Campbell, Cupertino, Los Gatos, Monte Sereno, San Jose, Santa Clara, and Sunnyvale.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved West Valley Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1990, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - COMPLETED

- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek Emergency Levee Raising from Hwy 237 to 101
- Calabazas Creek Comer Debris Basin Study

MAJOR PROJECTS - CURRENT

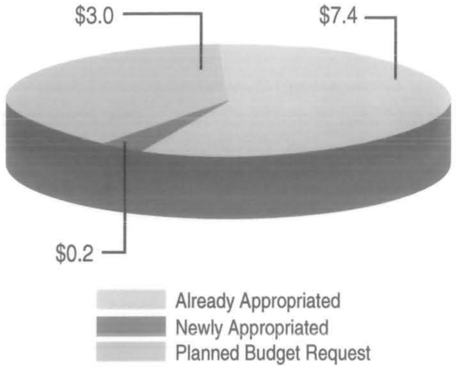
- Freshwater Wetlands Maintenance Mitigation
- Calabazas Creek Lawrence Expressway to Miller Avenue Revegetation
- Calabazas Creek Bollinger Bridge Reconstruction
- San Tomas Creek Repairs from Monroe Street to Williams Road

MAJOR PROJECTS - FUTURE

- Calabazas Creek Wardell to Comer Debris Basin

West Valley Watershed Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

Total $10.55 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
200420	Freshwater Westlands Mitigate, Los Caps	989	3,393	0	0	0	0	0	0	0	0	0	0	0	4,382
201013	Calabazas Creek Revegitation Lawrence-Miller	3,653	(71)	58	42	0	0	0	0	0	0	0	0	0	3,681
201015	Calabazas Creek, Bollinger Bridge	423	1,778	0	0	0	0	0	0	0	0	0	0	0	2,201
201016	Calabazas Creek, Comer Debris Basin	91	53	20	22	0	0	0	0	0	0	0	0	0	186
201905	San Tomas Creek Repairs, Monroe-Williams	412	2,197	35	31	30	0	0	0	0	0	0	0	0	2,705
200426	SF Bay Shoreline Study, Fed Funding	0	0	12	12	0	0	0	0	0	0	0	0	0	24
20C148	Calabazas Creek, Wardell-Comer Debris Basin	0	0	0	0	0	0	0	0	0	0	0	0	2,000	2,000
	Total	5,568	7,350	124	107	30	0	0	0	0	0	0	0	2,000	15,180
	Total (with inflation)	5,568	7,350	124	107	33	0	0	0	0	0	0	0	2,937	16,120
	Capital Investment		7,350	231		2,970									10,552

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

FUNDING SOURCES

There are four categories of revenue sources available to the West Valley Watershed for funding capital projects. These sources include debt financing, available annual revenue, partnerships, and capital reserve.

DEBT FINANCING

In the year 2000, the West Valley Watershed Fund issued Certificates of Participation (COPs) in the amount of $8 million to finance its Capital Improvement Program.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

See Freshwater Wetlands Maintenance Mitigation project for details.

CAPITAL RESERVE

The West Valley Watershed Fund will have accumulated approximately $1.46 million in its capital reserve at the beginning of FY 2004.

Freshwater Wetlands Maintenance Mitigation

Los Capitancillos Road

Project Number:
200420

Sponsoring Division:
Watershed Management

Project Manager:
Belinda Allen

OVERVIEW

OBJECTIVES

- Construct by December 2004 at the Los Capitancillos site, wetland and riparian habitat that meets or exceeds 3.0 acres as proposed in the district multi year stream maintenance program of 2002 to a maximum of 4.5 acres. Of the total wetland acreage constructed, use 2.5 acres to meet previous obligations for freshwater wetland compensatory mitigation (0.6 acres for the 1997 urgent sediment removal project and 1.9 acres for the year 2000 maintenance projects).
- Identify additional site restoration or enhancement opportunities for District Board consideration.

BENEFITS

- Policy E-3, Article 3.1.1 - "Healthy creek and bay ecosystems are protected, enhanced, or restored
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

The project consists of planning, design and construction of 3 acres of freshwater wetlands at Los Capitancillos Pond. The first stage will culminate with completion of the planning study and Board approval of the CEQA document and Engineers Report. A consultant team, Philip Williams and Associates, has been retained to complete this planning stage. The second stage will comprise design of final plans and specifications. The third stage is project construction.

SCHEDULE

INITIATION AND COMPLETION DATES

This project is not currently scheduled
The project is on hold.

Los Capitancillos site prior to wetland creation. Residential neighborhood adjacent to site.

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
200420	Freshwater Wetlands Mitigation, Los Capitancillos	989	3,393	0	0	0	0	0	0	0	0	0	0	0	4,382

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

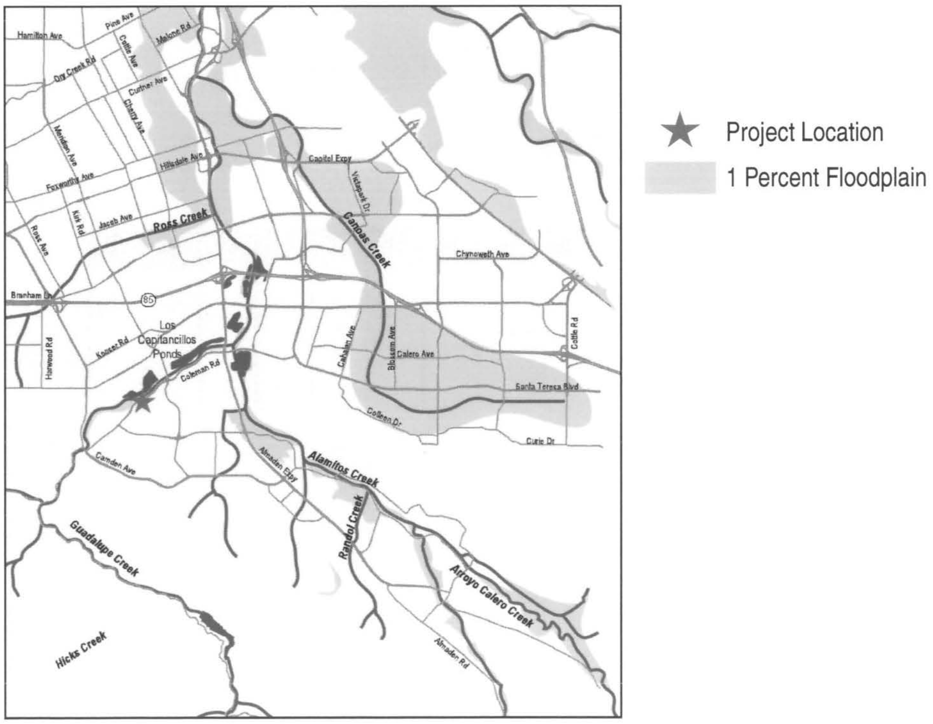
POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
This project provides for 3 acres of freshwater wetlands to mitigate for impacts resulting from District creek maintenance activities. The Lower Peninsula, Guadalupe, Coyote, and Watershed Stream Stewardship Funds will jointly finance the project with the West Valley Watershed Fund.

COST SHARING FORMULA
The cost-sharing formula is based on Clean Safe Creeks and Natural Flood Protection cost allocations and Stream Maintenance Program commitments.

REIMBURSEMENT SCHEDULE
The above funds plan to reimburse the West Valley Watershed Fund in FY 2004 and beyond.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



San Francisco Bay Shoreline Study

Pursue Federal Funding

Project Number:
200426

Sponsoring Division:
Watershed Management

Project Manager:
Debra Caldon

OVERVIEW

OBJECTIVES

- Pursue Federal funding to conduct projects to provide flood protection to homes and business in the tidal floodplain.
- Coordinate with agencies and appropriate entities in San Mateo, Santa Clara and Alameda Counties to facilitate this work.
- Coordinate with Regulatory Agencies to incorporate environmental protection, restoration and related purposes along the South San Francisco Bay Shoreline.

BENEFITS

- Policy GP-1, Article 1.4 - "To secure the health, safety, and quality of life in Santa Clara County, the District will carry out a prudent flood management program that reduces the potential for flood damage, balances costs and benefits (including possible environmental restoration and enhancement), and comprehensively addresses the expectations of the community."
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK

- Prepare a reconnaissance report on flood protection to homes and businesses in the tidal floodplain along South San Francisco Bay.
- Coordinate with the U.S. Army Corps of Engineers (COE) to pursue Federal assistance for this work.
- Coordinate with local agencies in impacted counties to jointly pursue Federal funding.
- Obtain Federal Assistance for flood protection projects.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule

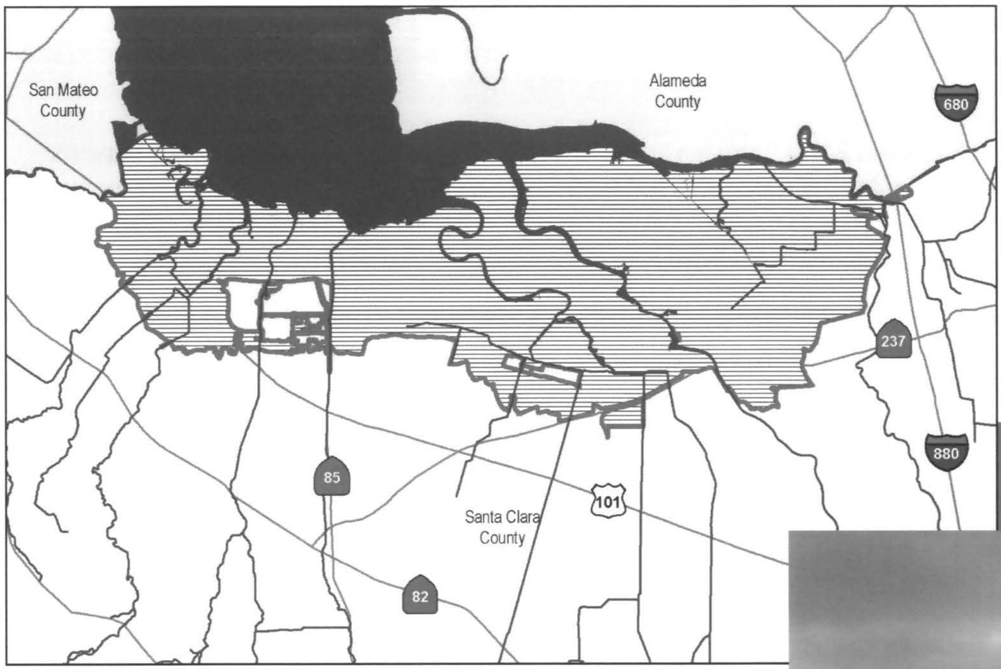
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning		▨	▨											
Design														
Construction														

Aerial Photograph of the San Francisco Bay Shoreline Study Area.

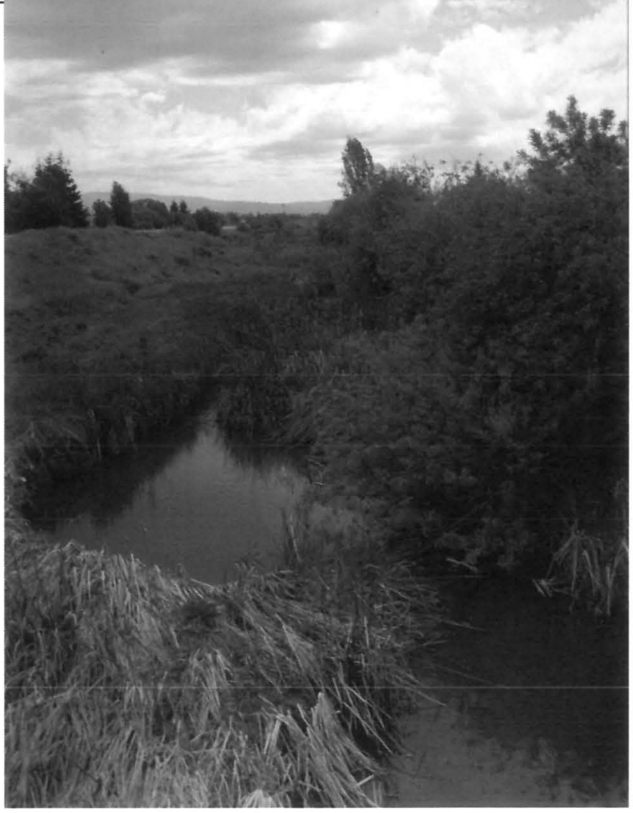
COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
200426	SF Bay Shoreline Study, Fed Funding WV	0	0	12	12	30	0	0	0	0	0	0	0	0	24

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



▬ Project Limits
▤ Project Area


Lower reach of Calabazas Creek near San Francisco Bay.

POTENTIAL COST SHARING
There is a possibility of cost-sharing with the US Army Corps of Engineers for at least 50 percent of project costs. If cost-sharing is secured, a Project Cooperative Agreement (PCA) will define the formula and reimbursement schedule.

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from this project.

Calabazas Creek Revegetation

Lawrence Expressway to Miller Avenue

Project Number:
201013

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Establish vegetation along the banks of Calabazas Creek following construction to comply with Army Corps of Engineers and California Fish and Game permits outlined in the District Environmental Impact Report (EIR).
- Apply for FEMA flood map revision.

BENEFITS

- Policy E-2, Article 2.2.2 - "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits."
- Policy E-3, Article 3.1.1 - "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."

SCOPE OF WORK

- Phase I - design, installation, and establishment of 1500 trees and shrubs between Lawrence Expressway and Homestead Road
- Phase IV - design, installation, and establishment of 3500 trees and shrubs between Homestead Road and Miller Avenue.
- Submit a Letter of Map Revision to the Federal Emergency Management Agency to complete flood map revision between the San Francisco Bay and Miller Avenue.

SCHEDULE

INITIATION AND COMPLETION DATES

June 1998 to December 2003

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■												

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appproprìated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
201013	Calabazas Creek Revegetation, Lawrence-Miller	3,653	(71)	58	42	0	0	0	0	0	0	0	0	0	3,681

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

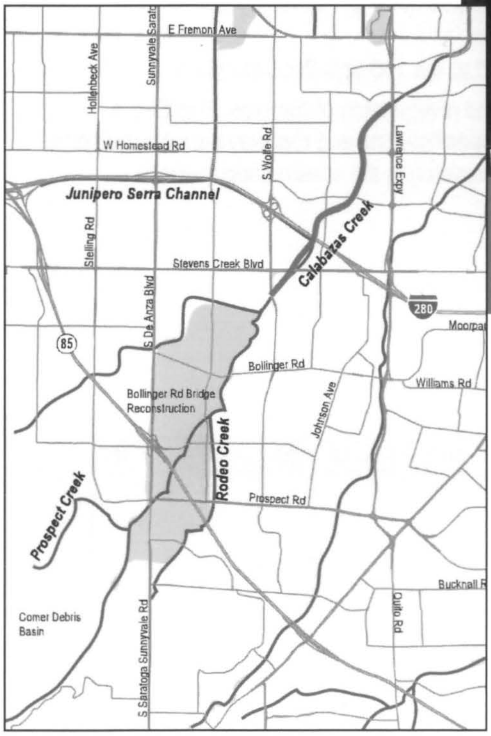
POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are not expected to be significant.

Picture taken June 1, 2000, after revegetation project. Calabazas looking upstream from Redtail Court.

■ Project Limits

▨ 1 Percent Floodplain



Calabazas Creek

Bollinger Bridge

Project Number:
201015

Sponsoring Division:
Watershed Management

Project Manager:
Pat Showalter

OVERVIEW

OBJECTIVES

- Minimize potential of flooding in adjacent residential properties and streets.
- Restore vegetation and habitat.
- Improve fish passage.
- Improve traffic and pedestrian capacity.
- Remove failing abandoned bridge structure.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.1 - "The cost of reducing the potential for flood damages is balanced with benefits (including possible environmental restoration and enhancement).
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-7, Article 7.9 - "Further.... he/she shall not fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

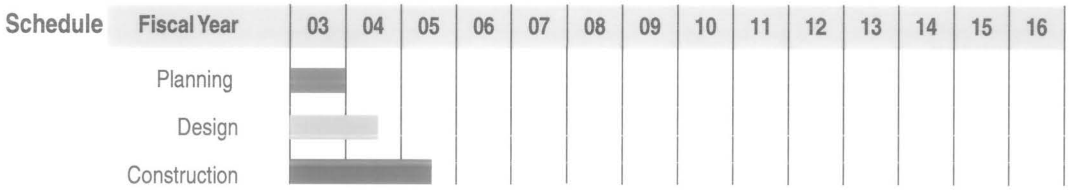
This is a cooperative project between the District and City of Cupertino (City) to comply with the CEQA process, prepare construction plans and specifications, acquire all necessary permits and administer the construction contract for:

- Enlargement of the existing Bollinger Road bridge culvert to the 100-year flood standard.
- Removal of the abandoned Old Bollinger Road bridge and revegetation of the area. This City is responsible for preparing CEQA documents, plans and specifications and roadway permit acquisition. The District is responsible for in-stream permits, and administering the construction contract.

SCHEDULE

INITIATION AND COMPLETION DATES

August 2000 to December 2004
(Remaining work will be funded from prior year's unused appropriations.)



COST

(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	14-16	Est. Total Cost
201015	Calabazas Creek Bollinger Bridge	423	1,778	0	0	0	0	0	0	0	0	0	0	0	2,201

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

City of Cupertino and District

COST SHARING FORMULA

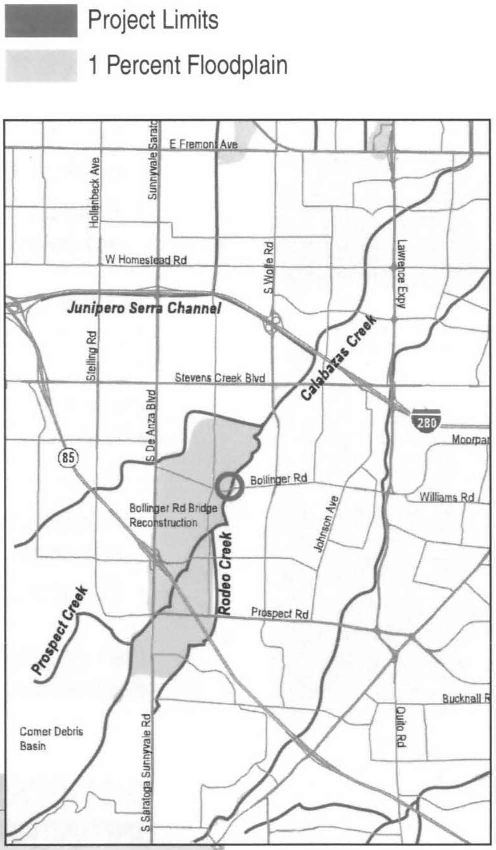
Based on an agreement, the City will prepare CEQA documents, plans and construction documents, and acquire all necessary permits. The District will provide construction administration. The District will also pay 100 percent of the Old Bollinger Road Bridge removal and 79 percent of the Bollinger Road Bridge reconstruction cost. The city will pay 100 percent for seismic retrofit of remaining protion of the bridge.

REIMBURSEMENT SCHEDULE

Amount shown in Project Cost chart is for District's estimated portion of total project costs. Costs will be reconciled after construction.

OPERATING BUDGET IMPACTS

After revegetation of the construction site and a plant reestablishment period of 3 years, a modest increase of $15,000 per year may be needed to adjust or extend the rock if the steep slopes beyond the limits of the rock start to fail.



Bollinger Road narrows at the bridge over Calabazas Creek, restricting pedestrian and bike traffic. Project will improve pedestrian and bicycle safety.

Calabazas Creek
Comer Debris Basin

WEST VALLEY WATERSHED

Project Number:
201016

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

At the request of the North Central Zone Advisory Committee and the City of Saratoga, this project was funded to evaluate the feasibility of removing or modifying the Comer Debris Basin, which was installed in 1973 and had not been maintained regularly since 1992.

BENEFITS

- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-7, Article 7.9 - "Further... he/she shall not fail to protect water rights, rights of way, and flood control facilities."
- Policy E-3, Article 3.1.1 - "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."

SCOPE OF WORK

The Comer Debris Basin project will utilize consultant services to prepare a feasibility study evaluating the impact of the Comer Debris Basin on the creek and the impacts of removing or modification of the debris basin, and examine the following issues:

- Hydraulic, hydrologic and sedimentation processes.
- Conceptual basin removal alternatives.
- Adverse and beneficial environmental impacts on water quality, vegetation, habitat, fisheries and aesthetics of all the alternatives.
- Cost to plan, construct and mitigate for at least two feasible alternatives

Planning (engineer's report and environmental impact report) design and construction of Comer Debris Basin will depend on the results of the feasibility study and is not included in the current scope.

SCHEDULE

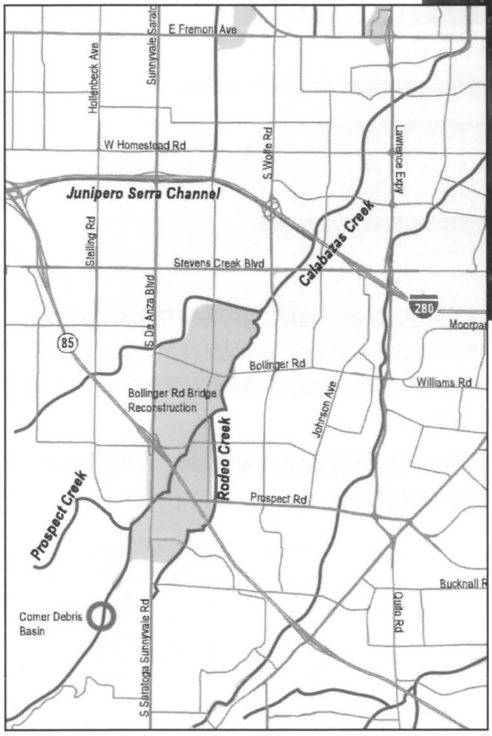
INITIATION AND COMPLETION DATES

August 2000 to April 2003

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	■													
Design														
Construction														

From Comer Debris Basin looking downstream of the Calabazas Creek.



■ Project Limits

░ 1 Percent Floodplain

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
201016	Calabazas Creek Comer Debris Basin	91	53	20	22	0	0	0	0	0	0	0	0	0	186

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No anticipated operating budget impacts.

San Tomas Creek Repairs

Monroe Street to Williams Road

Project Number:
201905

Sponsoring Division:
Watershed Management

Project Manager:
Jason Christie

OVERVIEW

OBJECTIVES

- Maintain a functioning flood management facility.
- Investigate the extent of damage to the reinforced box on San Tomas Creek between Monroe Street (Sta. 234+00) and Williams Road (Sta. 433+00) in the cities of Santa Clara and San Jose. Approximately 19,900 feet will be investigated.
- Repair the structure before further degradation of the structure results in failure.
- Cost share the design and repair of the structure with the County.

BENEFITS

- Policy E-2, Article 2.2 - “There is a reduced potential for flood damages.”

SCOPE OF WORK

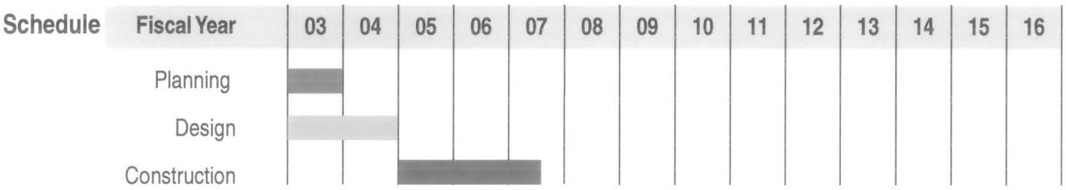
The County of Santa Clara has video taped the San Tomas Creek Reinforced Box Culvert and has determined that it is in need of structural repairs. The Structural Design Section of the County's Roads and Airports Department has hired a consultant (Jan. 2003) to develop a repair strategy, including a cost estimate. Once the County completes the repair strategy,

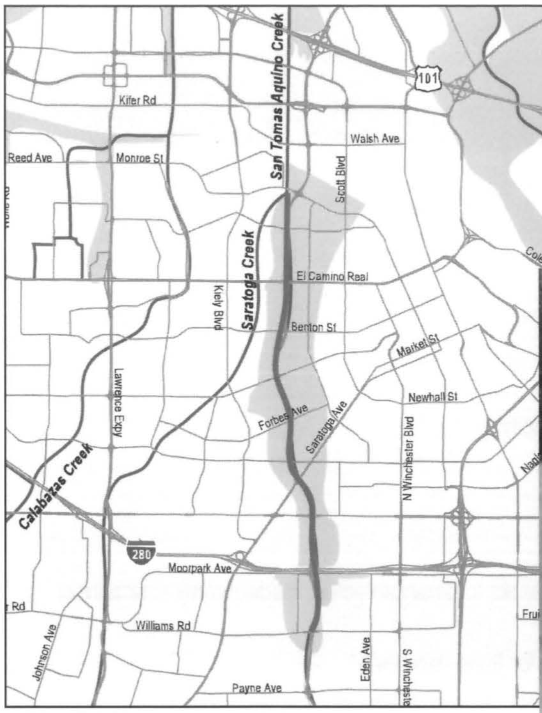
District staff will meet with them and negotiate an agreement for project design and construction, and cost sharing between the two agencies. This is a County-owned facility.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to December 2006





■ Project Limits

▨ 1 Percent Floodplain

Upstream end of the San Tomas Reinforced Concrete Box at Williams Road. The Box has structural problems, which are currently being assessed.

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
201905	San Tomas Creek Repairs, Monroe-Williams	412	2,197	35	31	30	0	0	0	0	0	0	0	0	2,705

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
Amount shown in Cost Chart is the estimated total project cost, including both the District's and Santa Clara County's share.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Santa Clara County and District.

COST SHARING FORMULA
Cost-sharing formulas will be determined in fiscal year 2004.

REIMBURSEMENT SCHEDULE
The reimbursement schedule will be determined in fiscal year 2004.

OPERATING BUDGET IMPACTS
Operating budget will be unchanged since the facility is county owned.

Calabazas Creek

Wardell to Comer Debris Basin

Project Number:
20C148

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Stabilize creek banks and channel.
- Balance sediment transport in the creek.
- Improve water quality in the creek.
- Improve flood capacity at Comer Drive Bridge.
- Repair creek channel to maintain conveyance capacity.
- Restore natural flow of the creek.
- Develop project with neighborhood and City input.

BENEFITS

- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy E-2, Article 2.2 - "There is reduced potential for flood damages."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project is proposed as an extension to the Calabazas Creek project between Miller Avenue and Wardell Road that is currently in the Clean, Safe Creeks Program. The work to be performed for the 3,200 LF of creek channel upstream of Wardell Road to and including the Comer Debris Basin includes preparation of an Engineer's Report and CEQA documentation for potential dam removal, creek channel stabilization, and erosion repair. Design and preparation of construction plans and specifications will be prepared. Permits for the construction work will be obtained, and construction work and construction management services are also included.

Calabazas Creek near Comer Debris Basin Dam.

SCHEDULE

INITIATION AND COMPLETION DATES

This project is not currently scheduled

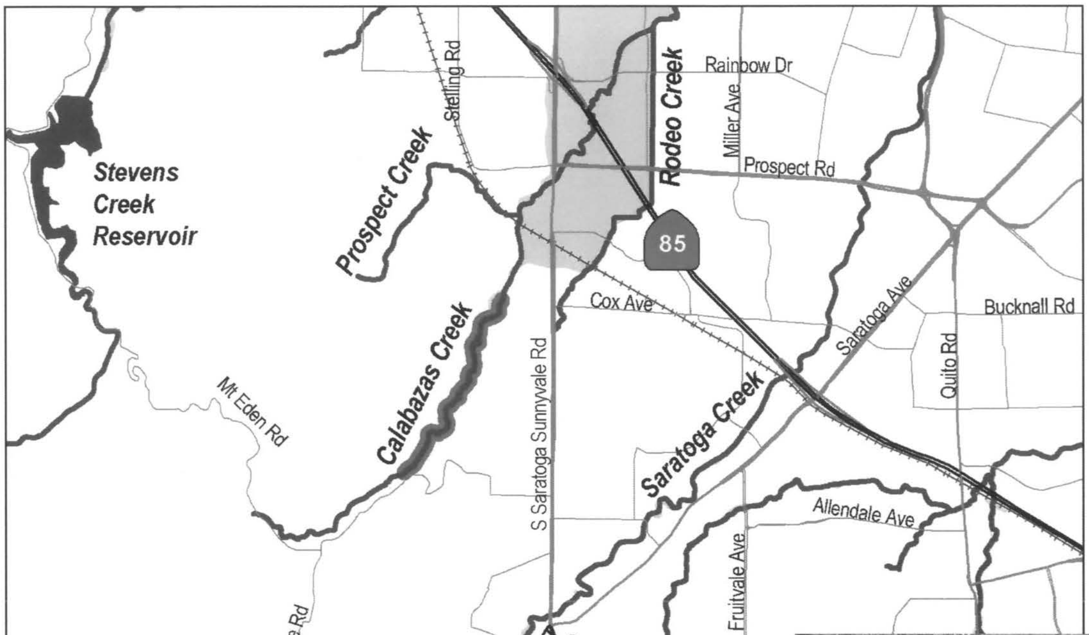
There are on-going discussions to merge this project with the Calabazas Creek project from Miller to Wardell.

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
20C148	Calabazas Creek, Wardell-Comer Debris Basin	0	0	0	0	0	0	0	0	0	0	0	0	2,000	2,000

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



■ Project Limits

▨ 1 Percent Floodplain

Looking upstream at Comer Debris Basin Dam. Project will investigate possible removal of the dam.

POTENTIAL COST SHARING

None

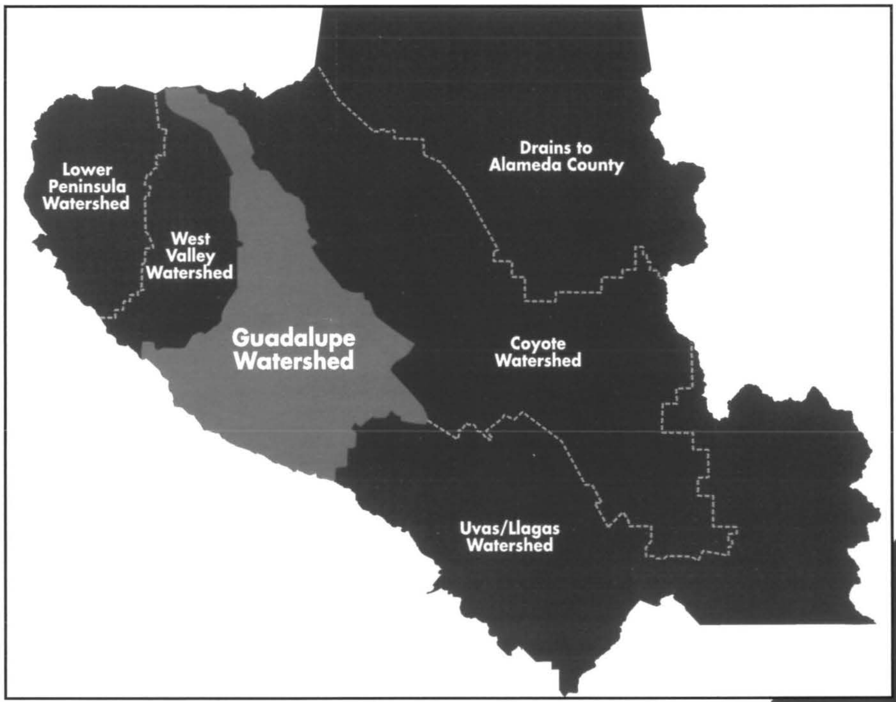
OPERATING BUDGET IMPACTS

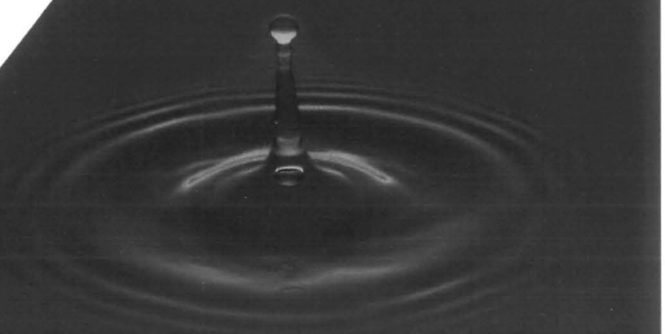
Operating budget impacts will be developed during the planning study.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Guadalupe Watershed Fund





Santa Clara Valley Water District

GUADALUPE WATERSHED FUND

FUND OVERVIEW

The Guadalupe Watershed Fund (Fund) is a special revenue fund. It was initially established to account for the Central Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Guadalupe Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The Guadalupe Watershed encompasses the entire Guadalupe watershed; including portions of the Town of Los Gatos, and the cities of Campbell, Monte Sereno, Santa Clara, and San Jose.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Guadalupe Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - COMPLETED

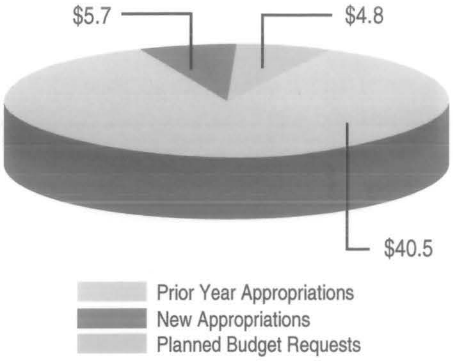
- The flood control features of the first two of the three reaches of Downtown Guadalupe River Project, from Highway 880 to Coleman Avenue.
- Guadalupe Creek Restoration from Almaden Expressway to Masson Dam
- Los Gatos Creek Erosion Repair at Kirk-Page Turnout
- Los Gatos Creek Erosion Repair at Gilgen Property
- Randol Creek Flood Risk Study

MAJOR PROJECTS - CURRENT

- Lower Guadalupe River from Union Pacific Railroad to Highway 880
- Downtown Guadalupe River from Highway 880 to Highway 280

MAJOR PROJECTS - FUTURE

- San Francisco Bay Shoreline Study, Federal Funding



Guadalupe Watershed Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016
Total: $51.0 million

FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appproprìated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
301511	Guadalupe River Lower, Alviso-880	54,155	16,146	2,293	2,420	75	3,375	0	0	0	0	0	0	0	78,464
301513S	Guadalupe River Downtown, 800-280	81,220	23,490	618	379	496	300	0	0	0	0	0	0	0	106,504
301525	Guadalupe Creek Restoration	7,899	790	0	0	0	0	0	0	0	0	0	0	0	8,689
302002	Los Gatos Creek Erosion Repairs	884	1	0	0	0	0	0	0	0	0	0	0	0	886
302003	Los Gatos Creek at Gilgen	1,176	(48)	0	0	0	0	0	0	0	0	0	0	0	1,129
302902	Randol Creek Flood Risk Study, Bret Harte-Alamitos	93	141	0	0	0	0	0	0	0	0	0	0	0	235
300426	SF Bay Shoreline Study, Fed Funding	0	0	12	12	0	0	0	0	0	0	0	0	0	24
	Total	145,428	40,522	2,923	2,811	571	3,675	0	0	0	0	0	0	0	195,930
	Total (with inflation)	145,428	40,522	2,923	2,811	624	4,136	0	0	0	0	0	0	0	196,444
	Capital Investment		40,522	5,734		4,760									51,016

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
301513S	Guadalupe River Downtown, 880-280	7,573	545	0	0	0	0	0	0	0	0	21,729	29,847
301525	Guadalupe Creek Restoration	0	0	0	0	4,200	0	0	0	0	0	0	4,200
Total		7,573	545	0	0	4,200	0	0	0	0	0	0	34,047

A brief description of changes and source of reimbursement can be found on project pages.

FUNDING SOURCES

There are four categories of revenue available to the Guadalupe Watershed for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships, and capital reserve.

DEBT FINANCING

In the year 2000, the Guadalupe Watershed Fund issued Certificates of Participation (COPs) in the amount of $10 million to finance its capital improvement program.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

See Downtown Guadalupe River project and Guadalupe Creek Restoration project for details.

CAPITAL RESERVE

The Guadalupe Watershed Fund will have accumulated approximately $5.2 million in its capital reserve at the beginning of FY 2004.

San Francisco Bay Shoreline Study

Pursue Federal Funding

Project Number:
300426

Sponsoring Division:
Watershed Management

Project Manager:
Debra Caldon

OVERVIEW

OBJECTIVES

- Pursue Federal funding to conduct projects to provide flood protection to homes and business in the tidal floodplain.
- Coordinate with agencies and appropriate entities in San Mateo, Santa Clara and Alameda Counties to facilitate this work.
- Coordinate with Regulatory Agencies to incorporate environmental protection, restoration and related purposes along the South San Francisco Bay Shoreline.

BENEFITS

- Policy GP-1, Article 1.4 - "To secure the health, safety, and quality of life in Santa Clara County, the District will carry out a prudent flood management program that reduces the potential for flood damage, balances costs and benefits (including possible environmental restoration and enhancement), and comprehensively addresses the expectations of the community."
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK

- Prepare a reconnaissance report on flood protection to homes and businesses in the tidal floodplain along South San Francisco Bay.
- Coordinate with the U.S. Army Corps of Engineers (COE) to pursue Federal assistance for this work.
- Coordinate with local agencies in impacted counties to jointly pursue Federal funding.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Planning		■	■											
	Design														
	Construction														

Alviso Slough looking upstream from the marina park.

COST
(inThousands $)

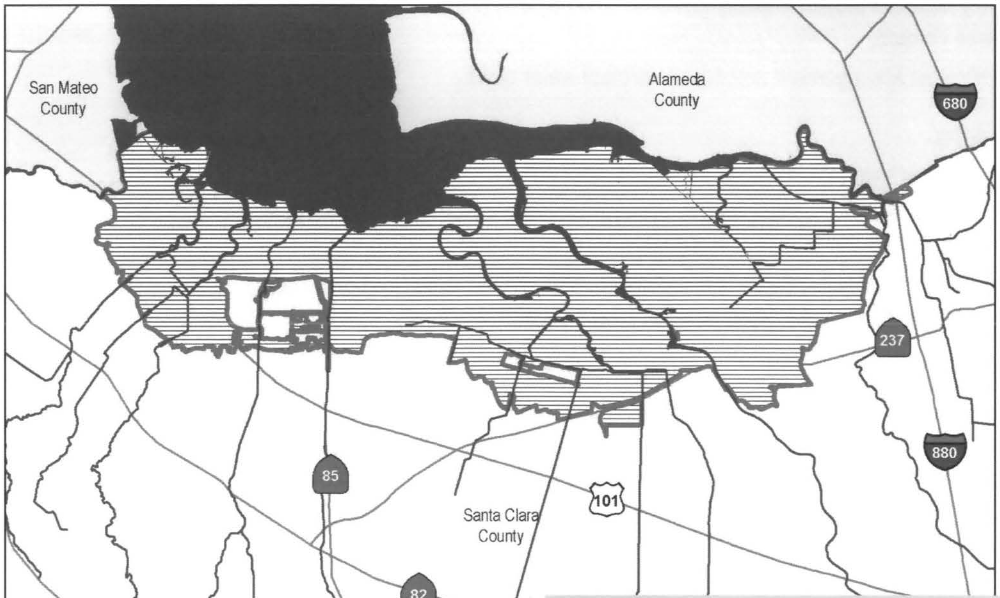
		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
300426	SF Bay Shoreline Study, Federal Funding G	0	0	12	12	0	0	0	0	0	0	0	0	0	24

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
There is a possibility of cost-sharing with the US Army Corps of Engineers for at least 50 percent of project costs. If cost-sharing is secured, a Project Cooperative Agreement (PCA) will define the formula and reimbursement schedule.

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from this project.

Aerial Photograph of the San Francisco Bay Shoreline Study Area.



Alviso Slough looking downstream toward the San Francisco Bay.

Guadalupe River Lower

Alviso Marina to Highway 880

Project Number:
301511

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

- Eliminate the potential for flood damage to people and to property during a 1 percent flood event along the lower Guadalupe River.
- Reduce bank erosion and sedimentation-related impacts along the lower Guadalupe River.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore some of the lost historic functions and vlaue of the riparian corridor where feasible.
- Provide long-term riparian habitat improvement to offset impacts that result from the construction of
- Provide mitigation for unavoidable adverse impacts on environmental resources.
- Provide opportunities to protect and enhance the existing wetlands and riparian habitat, and improve conditions favoring Chinook salmon and steelhead trout.
- Provide, where possible, continuous maintenance access along the river, which can be used as a trail.
- Identify potential project impacts on Alviso and bayland areas and mitigate for unavoidable adverse impacts.
- Specify Best Management practices to protect water quality.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

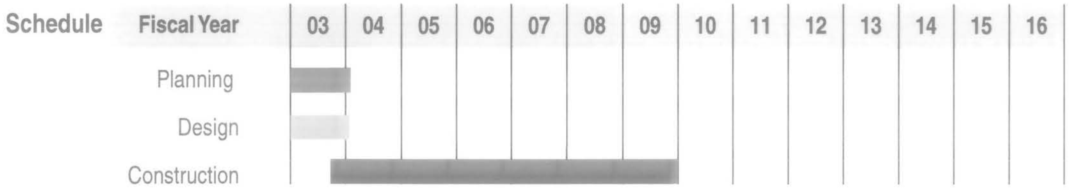
This project provides flood protection improvements along approximately 6 miles of the lower Guadalupe River, from the Alviso Marina to Highway 880. The project will evaluate different alternatives, and recommend a solution that would best satisfy all the objectives of the District and the public; prepare environmental and engineer's reports; obtain the necessary permits; prepare plans and specifications, and construct the proposed flood protection improvements.

SCHEDULE

INITIATION AND COMPLETION DATES

June 1999 to June 2009

In-channel construction scheduled to be complete by December 2005. Mitigation planting will continue for 3 years after construction.



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
301511	Guadalupe River Lower, Alviso-880	54,155	16,146	2,293	2,420	75	3,375	0	0	0	0	0	0	0	78,464

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

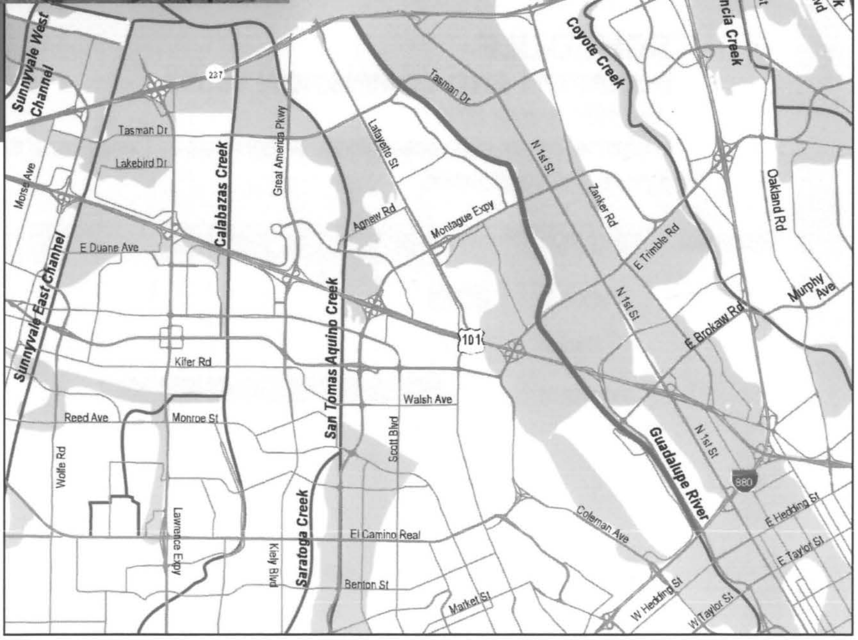
None.

OPERATING BUDGET IMPACTS

Impacts to the Guadalupe Watershed Operations budget include increases to labor and equipment resources to ensure that routine stream maintenance practices are conducted in an efficient, consistent and environmentally sensitive manner. The cost estimate for additional routine maintenance work, not already accounted for in the District's Stream Maintenance Program is $455,000.

Excavation for floodwall foundation.

Floodwall construction on Lower Guadalupe River, July 2003.



▬ Project Limits

▨ 1 Percent Floodplain

Guadalupe River Downtown

Highway 880 to Highway 280

Project Number:
301513, 301514, 301515
301516, 301517, 301518

Sponsoring Division:
Watershed Management

Project Manager:
Joe Chen

OVERVIEW

OBJECTIVES

- Provide 1 percent flood protection to downtown San Jose's technology and commercial industries and residential neighborhoods.
- Protect and improve water quality of the river.
- Preserve and enhance the river's habitat, fish and wildlife.
- Provide recreational and open space benefits in cooperation with the Army Corps of Engineers (Corps), City of San Jose and San Jose Redevelopment Agency.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

Inlet Structure O–G weir Contract 3C, Phase II.

SCOPE OF WORK

This is a cooperative project with the U.S. Army Corps of Engineer (COE), State of California, City of San Jose, San Jose Redevelopment Agency and the District. The COE and District will implement project work. The COE is responsible for planning, design, and construction of the flood protection mitigation, recreation and trails element. The District is responsible for right-of-way acquisitions, utility relocations, and bridge construction. The cost of the project is shared by several agencies, per the "Partnership" section of the Guadalupe Watershed Fund information in the Capital Improvement Plan.

This effort is accounted for in the following job numbers:

301513 = Hwy 880 to Heading
301514 = Hedding to Coleman
301515 = Coleman to Santa Clara
301516 = Santa Clara to Park
301517 = Woz Way to Hwy 280
301518 = Guadalupe River, Escrow

SCHEDULE

INITIATION AND COMPLETION DATES

June 1991 to June 2009
In-channel construction scheduled to be complete by December 2005. Mitigation planting will continue for 3 years after construction.

Schedule

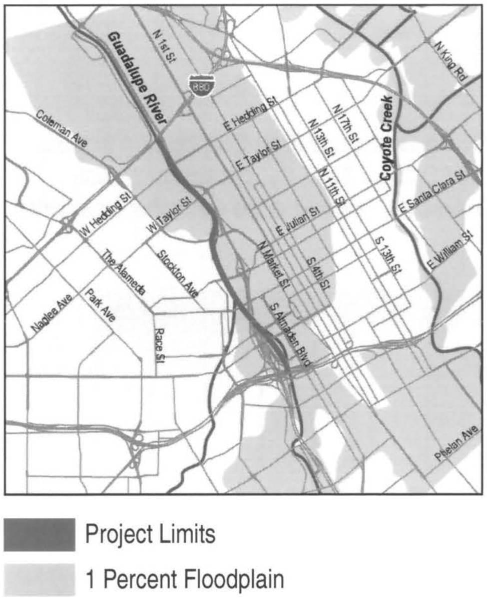
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	■													
Design	■													
Construction	■	■	■	■	■	■	■							

Flooding in Downtown San Jose near St. John Street

COST (inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
301513	Guadalupe River DT, 880-Hedding	872	564	162	0	0	0	0	0	0	0	0	0	0	1,599
301514	Guadalupe River DT, Hedding-Coleman	9,413	2,743	0	0	0	0	0	0	0	0	0	0	0	12,157
301515	Guadalupe River DT, Coleman-W. Santa Clara	21,766	18,414	0	0	396	200	0	0	0	0	0	0	0	40,776
301516	Guadalupe River DT, W. Santa Clara-Park	9,973	3,789	0	0	0	0	0	0	0	0	0	0	0	13,762
301517	Guadalupe River DT, Woz-280	7,419	854	456	379	100	100	0	0	0	0	0	0	0	9,308
301518	Guadalupe River DT, Escrow	31,778	(2,875)	0	0	0	0	0	0	0	0	0	0	0	28,903
Total		81,220	23,490	618	379	496	300	0	0	0	0	0	0	0	106,504

* Estimated as of:5/31/03. Estimated Actuals include project expenditures and encumbrances. The amount shown in the Cost Chart is estimated costs for District and City/Agency share of the total project costs and does not include the COE's share.



POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

U.S. Corps of Engineers (COE), City of San Jose, San Jose Redevelopment Agency (Agency), State of California, and the District.

COST SHARING FORMULA

The cost sharing formula is based on the 1992 local cooperative agreement. The Corps is responsible for costs related to channel construction. The District is responsible for costs related to land, easements, utility relocation, bridge reconstruction, and hazardous materials cleanup. The City of San Jose is responsible for recreational components of the project. Seventy percent of local (District) costs are eligible for reimbursement from state subventions.

REIMBURSEMENT SCHEDULE

See table below.

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year 03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
301513	Guadalupe River Downtown, 880-Hedding	State Subventions	0	545	0	0	0	0	0	0	0	0	21,719	22,274
301515	Guadalupe River DT, Coleman-W. Santa Clara	San Jose Redevelopment Agency	7,573	0	0	0	0	0	0	0	0	0	0	7,573
Total			7,573	545	0	0	0	0	0	0	0	0	21,729	29,847

OPERATING BUDGET IMPACTS

Annual operations and maintenance costs are estimated to be $2.1 million for the entire Downtown Guadalupe River Project. This does not include adaptive management or monitoring costs in accordance with the Mitigation and Monitoring Plan.

Guadalupe Creek Restoration

Almaden Expressway to Masson Dam

Project Number:
301525

Sponsoring Division:
Watershed Management

Project Manager:
Al Gurevich

OVERVIEW

OBJECTIVES

The Guadalupe Creek Restoration project is intended to enhance and restore Guadalupe Creek, from Almaden Expressway to Masson Dam and to offset environmental impacts associated with the downtown Guadalupe Flood Management Project and future District Projects.

BENEFITS

Policy E-3, Article 3.1 - "Watersheds, streams and the natural resources therein are protected and, when appropriate, enhanced or restored."

SCOPE OF WORK

The scope includes planning, design, preparation of plans and specifications, and providing construction support for Guadalupe Creek Restoration project, between Almaden Expressway and Masson Dam.

SCHEDULE

INITIATION AND COMPLETION DATES

June 1998 to April 2005

Project planning was initiated in summer 1998, responding to the Guadalupe River Collaborative process. Construction began July 2001, with in-channel work completed October 2001. Substantial completion attained March 2002. A maintenance period for plant establishment is required of the contractor for a period of three years.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■	■											

Guadalupe Creek, pre-project conditions: Highly incised channel, eroding bank, and non-native vegetation.

Guadalupe Creek, post-project conditions: Lowered floodplain, stabilized banks, and native plantings.

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
301525	Guadalupe Creek Restoration	7,899	790	0	0	0	0	0	0	0	0	0	0	0	8,689

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
The amount shown in the Cost Chart is the estimated total project cost, including both the District's and the COE's shares.

POTENTIAL COST SHARING

Yes.

PARTNERING AGENCIES

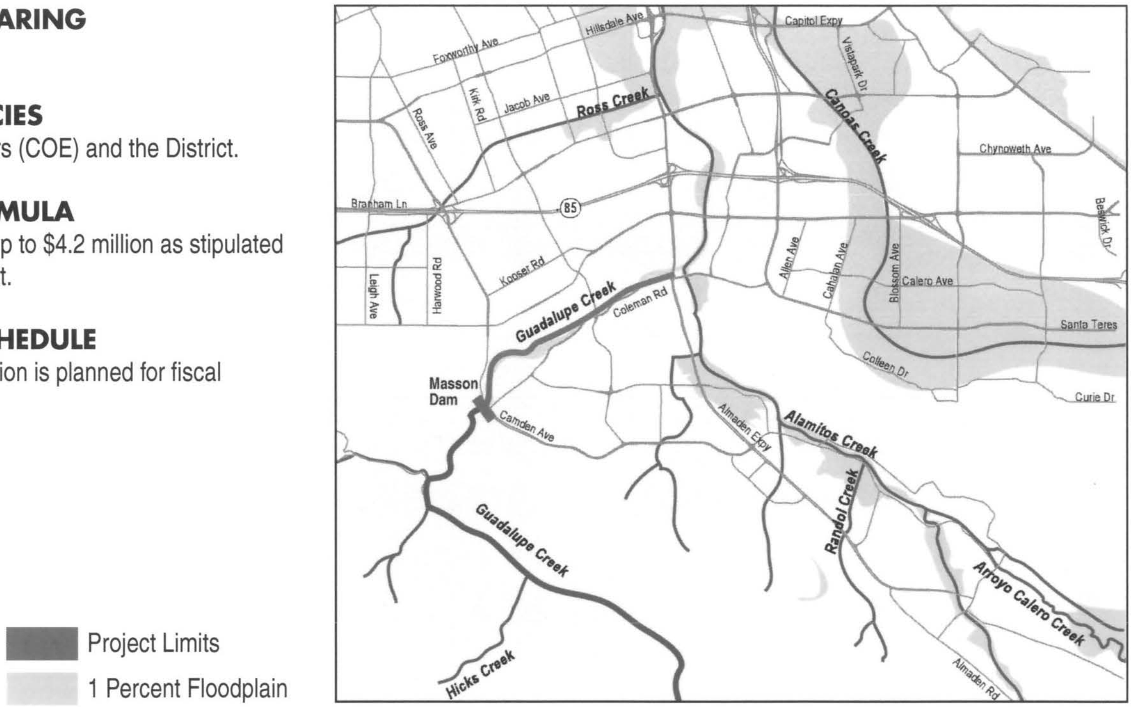
U.S. Army Corps of Engineers (COE) and the District.

COST SHARING FORMULA

The COE is responsible for up to $4.2 million as stipulated in the Section 215 agreement.

REIMBURSEMENT SCHEDULE

A reimbursement of $4.2 million is planned for fiscal year 2007.



ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
301525	Guadalupe Creek Restoration	Army Corps of Engineers		0	0	0	0	4,200	0	0	0	0	0	0	4,200

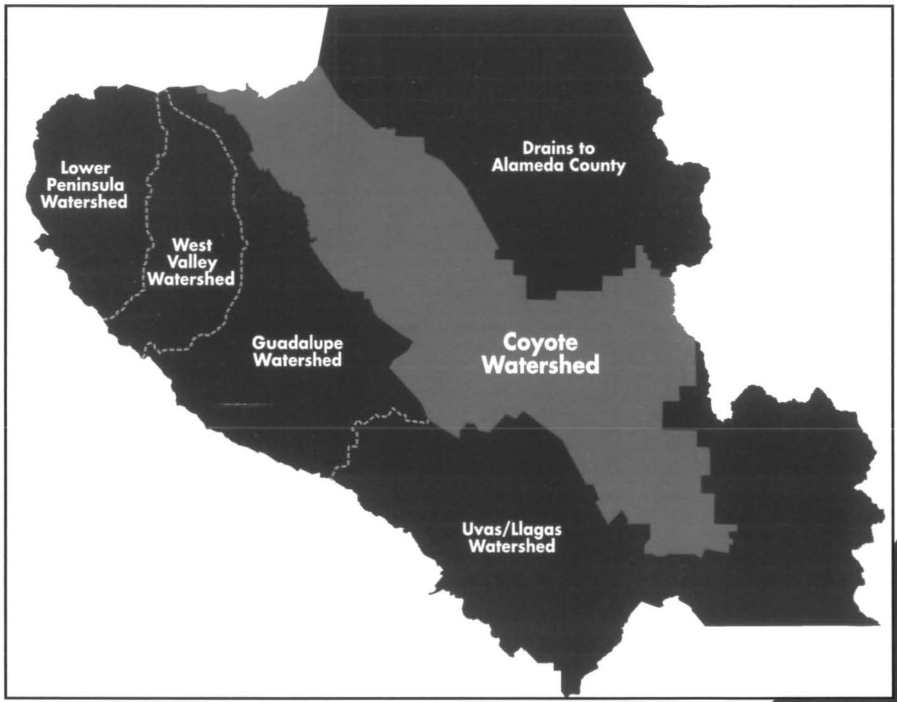
OPERATING BUDGET IMPACTS

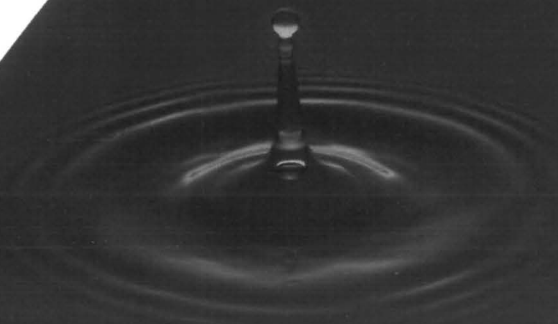
Impacts to the Guadalupe Watershed operations budget include increases to labor and equipment resources to ensure that routine stream maintenance and vegetation management practices are conducted in an efficient, consistent, and environmentally sensitive manner. The cost estimate for routine maintenance work and vegetation management is $100,000 annually.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Coyote Watershed Fund





Santa Clara Valley Water District

COYOTE WATERSHED FUND

FUND OVERVIEW

The Coyote Watershed Fund (Fund) is a special revenue fund, initially established to account for the East Flood Control Zone ad valorem tax and later included Benefit Assessment revenues, last approved in 1986 by voters within the Coyote Watershed. The Benefit Assessment revenue is restricted to finance only flood management activities, including operation programs and the capital improvement program, within the watershed.

The Coyote Watershed, the largest in Santa Clara County, includes the City of Milpitas and east and southeast portions of the City of San Jose.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Coyote Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - COMPLETED

- Coyote Creek from San Francisco Bay to Montague Expressway
- Wrigley Ford Pump Station
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Calera Creek from Berryessa Creek Confluence to Highway 680
- Calera Creek at Union Pacific Railroad
- Coyote Creek Outdoor Classroom
- Coyote Creek at South Bay Mobile Home Park

MAJOR PROJECTS - CURRENT

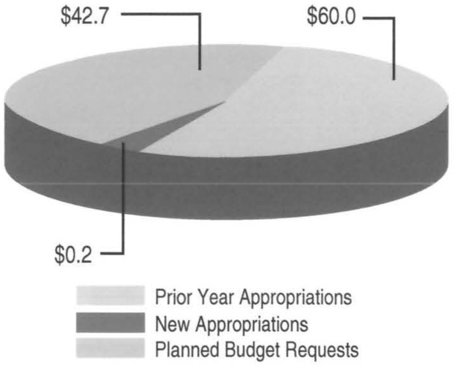
- Berryessa Creek from Lower Penitencia Creek Confluence to Calaveras Boulevard
- Lower Silver Creek from Coyote Creek Confluence to Cunningham Avenue
- Lake Cunningham Improvements
- Silver/Thompson Creek from Cunningham Avenue to Aborn Road
- Upper Penitencia Creek from Coyote Creek Confluence to Dorel Drive
- San Francisco Bay Shoreline Study

MAJOR PROJECTS - FUTURE

None

Coyote Watershed Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

Total: $103.0 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
401704	Berryessa Creek, Lower Penitencia-Calaveras	3,103	9,617	0	0	0	0	0	0	0	0	0	0	0	12,720
401801	Calera Creek, Berryessa-680	23	10	9	10	0	0	0	0	0	0	0	0	0	51
401802	Calera Creek at UPRR	1,184	102	0	0	0	0	0	0	0	0	0	0	0	1,285
402108	Coyote Creek, SF Bay-Montague, Reimbursement	23,985	1,496	0	0	0	0	0	0	0	0	0	0	0	25,481
402118	Coyote Creek, Outdoor Classroom	989	25	0	0	0	0	0	0	0	0	0	0	0	1,014
402119	Coyote Creek, S. Bay MHP Floodwall	848	477	0	0	0	0	0	0	0	0	0	0	0	1,325
402120	Coyote Creek at Rockspring	125	893	0	0	0	0	0	0	0	0	0	0	0	1,018
402601S	L. SIlver Creek, Coyote-Cunningham	41,810	35,833	0	0	0	0	0	0	0	0	0	0	18,847	96,489
402610	Silver/Thompson Creeks	2,692	2,178	0	0	0	0	0	0	0	0	0	0	0	4,870
402611	Lake Cunningham Improvements	1	1,399	59	90	1,544	0	0	0	0	0	0	0	0	3,094
403203S	Upper Penitencia Creek, Coyote-Dorel	9,863	7,987	0	0	0	0	4,308	4,887	2,447	0	0	0	0	29,493
400426	SF Bay Shoreline Study, Federal Funding	0	0	12	12	0	0	0	0	0	0	0	0	0	24
	Total	84,623	60,017	80	112	1,544	0	4,308	4,887	2,447	0	0	0	18,847	176,865
	Total (with inflation)	84,623	60,017	80	112	1,687	0	4,994	5,836	3,010	0	0	0	27,218	187,577
	Capital Investment		60,017	192		42,745									102,954

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
402108	Coyote Creek, SF Bay-Montague Reimbursement	0	2,100	0	0	0	0	0	0	0	0	2,220	4,320
402118	Coyote Creek, Outdoor Classroom	51	0	0	0	0	0	0	0	0	0	0	51
402601S	L. Silver Creek, Coyote-Cunningham	0	600	0	0	0	0	0	0	0	0	14,360	14,960
403203S	Upper Penetencia Creek, Coyote-Dorel	0	0	0	0	0	0	0	0	0	0	2,668	2,668
Total		51	2,700	0	0	0	0	0	0	0	0	19,248	21,999

A brief description of changes and source of reimbursements can be found on project pages.

FUNDING SOURCES

There are four categories of revenue available to the Coyote Watershed for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

In 2000, the Coyote Watershed Fund issued Certificates of Participation (COPs) in the amount of $27 million to finance its capital improvement program.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

See Coyote Creek, San Francisco Bay to Montague Expressway; Lower Silver Creek; and Upper Penitencia Creek projects for details.

CAPITAL RESERVE

The Coyote Watershed Fund will have accumulated approximately $3.96 million in its capital reserve at the beginning of FY 2004.

San Francisco Bay Shoreline Study

Pursue Federal Funding

Project Number:
400426

Sponsoring Division:
Watershed Management

Project Manager:
Debra Caldon

OVERVIEW

OBJECTIVES

- Pursue Federal funding to conduct projects to provide flood protection to homes and business in the tidal floodplain.
- Coordinate with agencies and appropriate entities in San Mateo, Santa Clara and Alameda Counties to facilitate this work.
- Coordinate with Regulatory Agencies to incorporate environmental protection, restoration and related purposes along the South San Francisco Bay Shoreline.

BENEFITS

- Policy GP-1, Article 1.4 - "To secure the health, safety, and quality of life in Santa Clara County, the District will carry out a prudent flood management program that reduces the potential for flood damage, balances costs and benefits (including possible environmental restoration and enhancement), and comprehensively addresses the expectations of the community."
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK

- Prepare a reconnaissance report on flood protection to homes and businesses in the tidal floodplain along South San Francisco Bay.
- Coordinate with the U.S. Army Corps of Engineers (COE) to pursue Federal assistance for this work.
- Coordinate with local agencies in impacted counties to jointly pursue Federal Funding.

Lower reach of Coyote Creek near San Francisco Bay.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

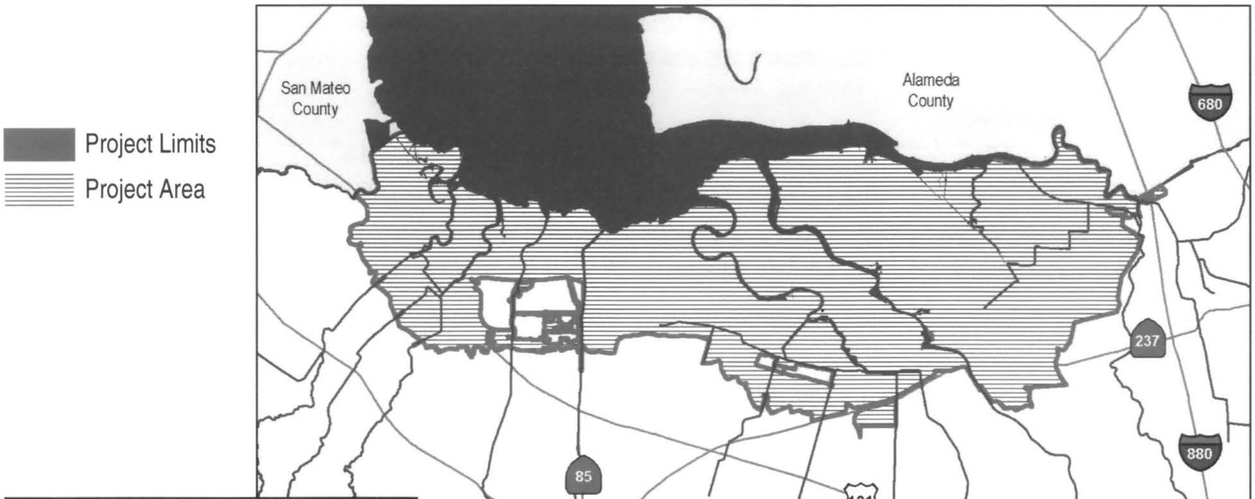
Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Planning		▨	▨											
	Design														
	Construction														

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
400426	SF Bay Shoreline Study, Federal Funding C	0	0	12	12	0	0	0	0	0	0	0	0	0	24

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Aerial Photograph of the San Francisco Bay Shoreline Study Area.

Lower reach of Coyote Creek near San Francisco Bay.

POTENTIAL COST SHARING

There is a possibility of cost-sharing with the US Army Corps of Engineers for at least 50 percent of project costs. If cost-sharing is secured, a Project Cooperative Agreement (PCA) will define the formula and reimbursement schedule.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from this project.

Berryessa Creek

Lower Penitencia Creek to Calaveras Boulevard

Project Number:
401704

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-year flood event.
- Mitigate for project impacts.
- Improve stream habitat values, and fisheries potential, as appropriate.
- Ensure existing levee system integrity.
- Integrate with and encourage local parks and trail projects, as feasible.
- Improve maintenance access and ensure safety of District staff.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable."
- Policy EL-7, Article 7.9 - "The CEO/GM staff shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked. Further... He/she shall not fail to protect water rights, rights of way, and flood control facilities."

Berryessa Creek upstream of the confluence with Lower Penitencia.

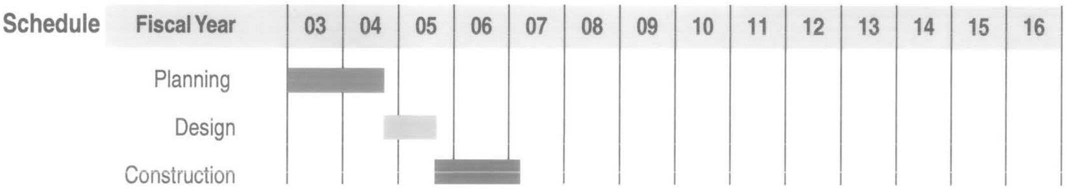
SCOPE OF WORK

- Investigate current conditions of Berryessa Creek levees and hydraulic capacity of the channel downstream of Calaveras Boulevard. An Engineers Report and environmental document will be developed to define the existing problems and identify a preferred alternative for Board approval.
- Design, prepare plans and specifications and construction for the Board-adopted alternative.
- Coordinate with the Cities of Milpitas and San Jose to incoporate trail projects, when feasible.

SCHEDULE

INITIATION AND COMPLETION DATES

March 2001 to October 2006



COST
(inThousands $)

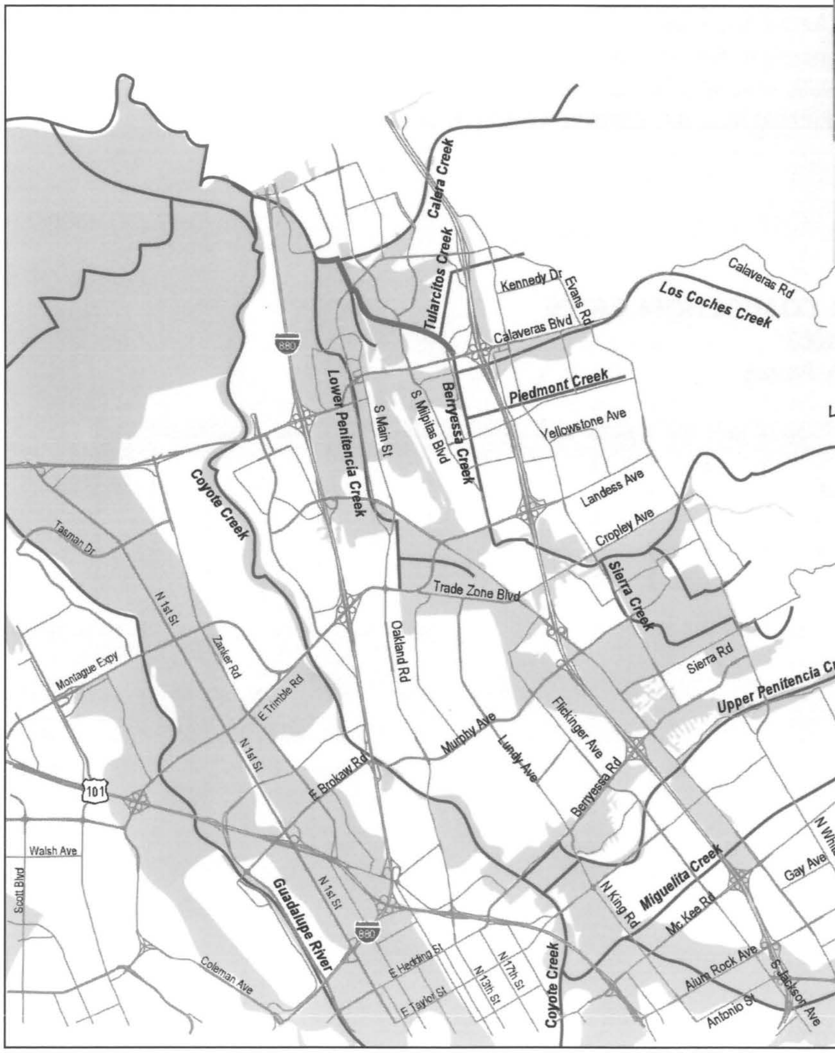
Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	14-16	Est. Total Cost
401704	Berryessa Creek, L. Penitencia-Calaveras	3,103	9,617	0	0	0	0	0	0	0	0	0	0	0	12,720

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Future operating budget impacts of the project will be determined during the planning phase.

Business flood damage from Berryessa Creek flooding.



▨ Project Limits

▨ 1 Percent Floodplain

Calera Creek

Berryessa Creek to Highway 680

Project Number:
401801

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

Determine baseline channel capacity and flooding potential, sediment deposition, and maintenance requirements.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable."

SCOPE OF WORK

This project will initially fund a reconnaissance study of Calera Creek to assess the flooding risk by determining the baseline channel capacity, sediment deposition and maintenance requirements. Further study or construction activity will be determined at the conclusion of the reconnaissance study. Funding for further activities will also be identified at that time.

SCHEDULE

INITIATION AND COMPLETION DATES

January 2001 to June 2003
(Reconnaissance Study Phase)

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	■													
Design														
Construction														

COST
(inThousands $)

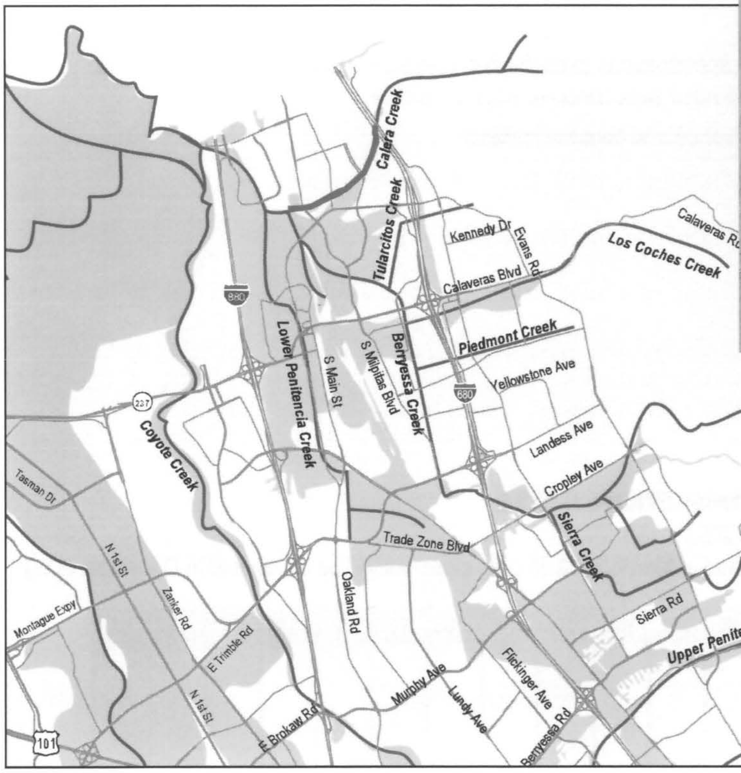
Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
401801	Calera Creek, Berryessa-680	23	10	9	10	0	0	0	0	0	0	0	0	0	51

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated at this time.

Calera Creek, downstream of Arizona Avenue in Milpitas.



Calera Creek

at Union Pacific Railroad

Project Number:
401802

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide 100-year flood protection with freeboard consistent with District policy to protect California Landing development in Milpitas.
- Provide a maintenance crossing over Calera creek.
- Replace/repair damaged sacked-concrete slope protection at the downstream end of the culvert under Union Pacific Railroad crossing

BENEFITS

- Policy E-2, Article 2.2 - “There is a reduced potential for flood damages.”
- Policy EL-7, Article 7.9 - “The CEO/GM staff shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked. Further... he/she shall not fail to protect water rights, rights of way, and flood control facilities.”

SCOPE OF WORK

- Design and prepare plans and specifications to tie the Berryessa and Calera levees, construct an access bridge, and replace damaged sack concrete slope protection.
- Obtain permits and CEQA clearance and construct project.

Looking upstream at Calera from UPRR.

SCHEDULE

INITIATION AND COMPLETION DATES

October 1997 to December 2003
Project construction completed in March 2002. Project close out will be completed in December 2003.

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■												

COST
(inThousands $)

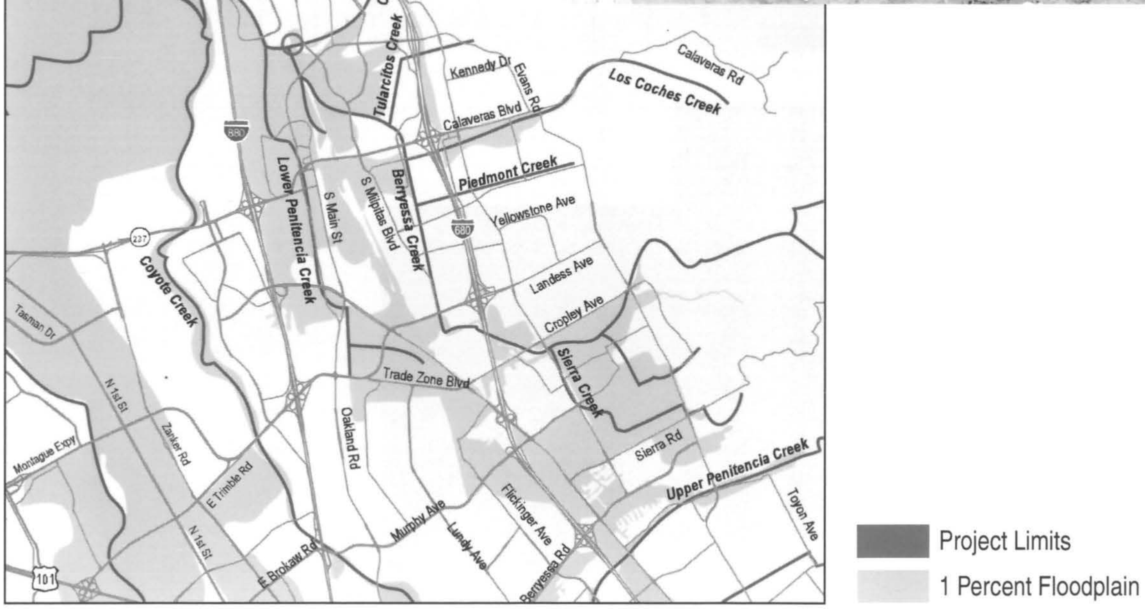
Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	Newly Appropriated 05	Planned Budget Requests 06	07	08	09	10	11	12	13	14-16	Est. Total Cost
401802	Calera Creek, at UPRR	1,184	102	0	0	0	0	0	0	0	0	0	0	0	1,285

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from the construction of this project.

Temporary sandbag wall along Calera Creek at UPRR. Installed after flooding of 1997.



▇ Project Limits
▒ 1 Percent Floodplain

Coyote Creek

San Francisco Bay to Montague Expressway
Reimbursable

Project Number:
402108

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

Fulfill the District's local sponsor obligations for the Army Corps of Engineers' (COE) Coyote Creek Flood Protection Project from San Francisco Bay to Montague Expressway.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

The project provides funds for the District to complete right-of-way acquisition, utility relocation and bridge reconstruction work associated with the COE's Coyote Creek Flood Protection Project from San Francisco Bay to Montague Expressway. Work is mostly complete, with a remaining task of removing the mud wave in Salt Pond A-18 to comply with conditions stipulated in the Cargill Salt right-of-way agreement.

SCHEDULE

INITIATION AND COMPLETION DATES

April 1982 to June 2004

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	▨	▨												

Successful operation of completed Lower Coyote Creek project during 1997 high flows.

COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
402108	Coyote Creek, SF Bay-Montague Reimbursable	23,985	1,496	0	0	0	0	0	0	0	0	0	0	0	25,481

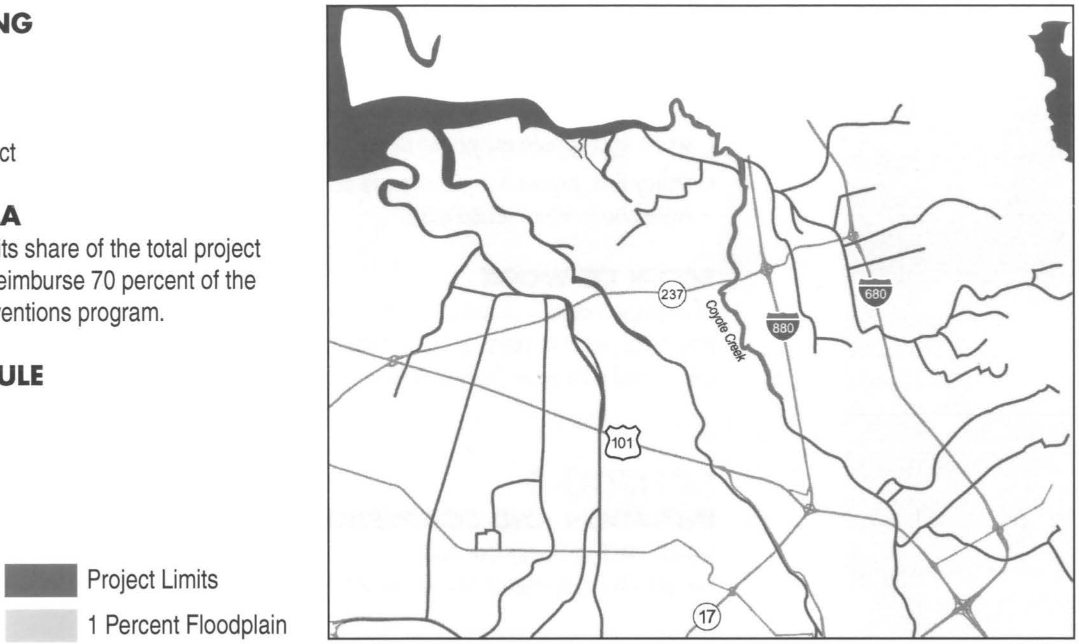
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
COE, State of California and District

COST SHARING FORMULA
As of FY 2001, the COE has paid its share of the total project costs. The State of California will reimburse 70 percent of the local project costs through its subventions program.

REIMBURSEMENT SCHEDULE
See table below.



ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
402108	Coyote Creek, SF Bay-Montague Reimbursable	State Subventions		0	2,100	0	0	0	0	0	0	0	0	2,220	4,320

OPERATING BUDGET IMPACTS
No additional operating budget impacts are anticipated as the District has already assumed operations and maintenance responsibility from the COE.

Coyote Creek
Outdoor Classroom

Project Number:
402118

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide nonstructural flood protection
- Provide a place for students to learn about the watershed
- Restore riparian habitat

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable."

SCOPE OF WORK

The scope includes preparation of a planning study, environmental documents and permits, design and preparation of plans and specifications to stabilize and revegetate part of the creek bank, replant the upland portion of the site, and construct an outdoor classroom.

SCHEDULE

INITIATION AND COMPLETION DATES

March 1997 to December 2003

Construction completed November 2001. Project closeout will be completed by December 2003.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■												

Site of planned Coyote Creek Outdoor Classroom to be used for the District's school program.

COST
(inThousands $)

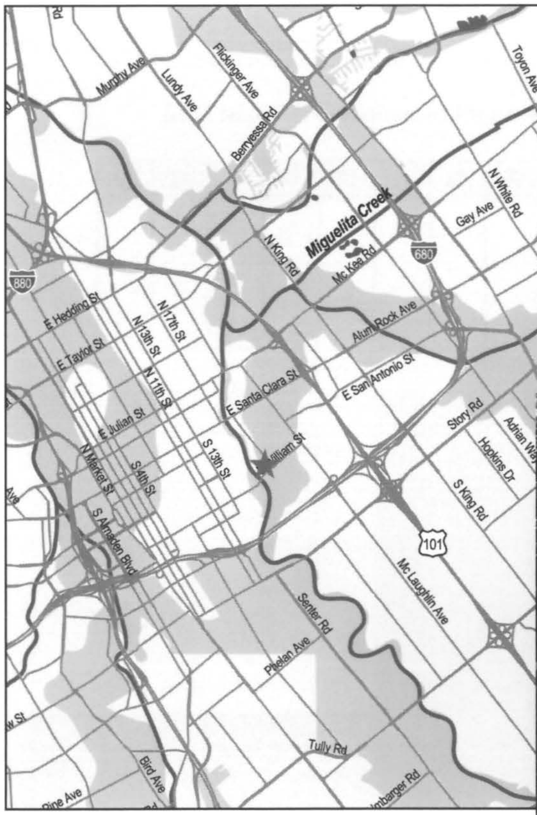
Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
402118	Coyote Creek, Outdoor Classroom	989	25	0	0	0	0	0	0	0	0	0	0	0	1,014

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances

POTENTIAL COST SHARING
None

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
402118	Coyote Creek, Outdoor Classroom	Department of Water Resources		51	0	0	0	0	0	0	0	0	0	0	51



★ Project Location

▨ 1 Percent Floodplain

OPERATING BUDGET IMPACTS
Operating budget impacts to maintain and operate the classroom are anticipated and will be determined in the near future.

The gazebo is used for presentations by District staff to teach visitors about the watershed and its inhabitants.

Coyote Creek
South Bay Mobile Home Park Floodwall

Project Number:
402119

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW
OBJECTIVES
Provide flood protection to the residents of the South Bay Mobile Home Park

BENEFITS
Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK
This project will replace the temporary sandbag structure that was constructed by the residents of the South Bay Mobile Home Park after the January 1997 flood event with a permanent floodwall. The residents constructed the 465-foot long sandbag structure parallel to the Union Pacific Railroad (UPRR) and in 1999 the City of San Jose (CSJ) shotcreted the sandbags in 1999. The shotcreted sandbag structure will be removed and a new floodwall will be constructed along the fenceline between the mobile home park property and the UPRR right of way.

SCHEDULE
INITIATION AND COMPLETION DATES
March 1997 to August 2003

Construction completed in January 2002. Project closeout will be completed in August 2003.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning														
Design														
Construction	■	■												

Flooding in January 1997 at the South Bay Mobile Home Park.

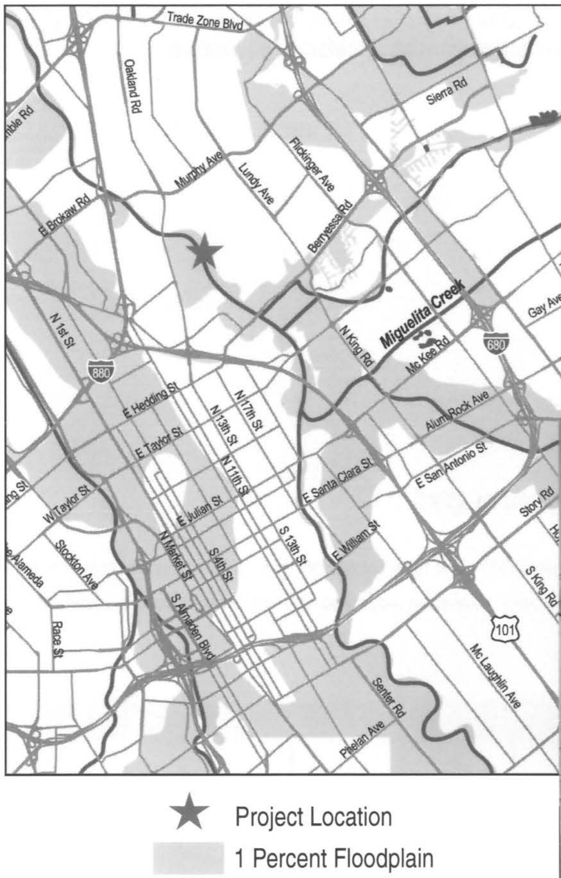
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
402119	Coyote Creek, South Bay Mobile Home Park Floodwall	848	477	0	0	0	0	0	0	0	0	0	0	0	1,325

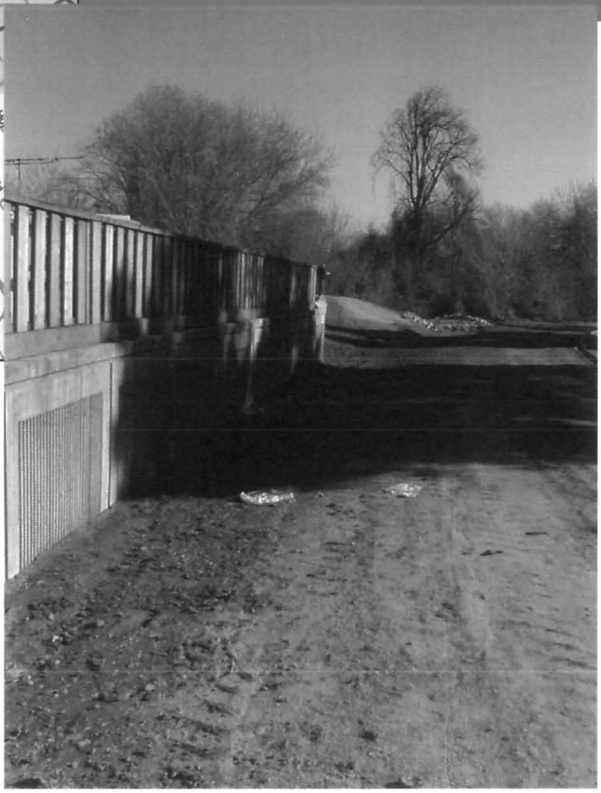
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from the construction of this project.



The completed floodwall along the south property line of the South Bay Mobile Home Park provides protection to the residents from Coyote Creek flooding.



Coyote Creek
at Rockspring

Project Number:
402120

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

Provide 100-year flood protection to the Rockspring neighborhood.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

The planning stage will identify structural flood protection measures to protect residents of the Rockspring neighborhood. The two alternatives currently being considered are an embankment levee/floodwall and setback levee. An Engineer's Report will be developed by the Corps of Engineers to define the existing problems and develop a preferred alternative.

Flooding at Rockspring neighborhood.

SCHEDULE

INITIATION AND COMPLETION DATES

March 1997 to June 2004

The project was cancelled in December 2002, but final accounting to document money spent by the District and Corps of Engineers and project closeout activities will be completed. Project closeout is expected by June 2004.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	▨	▨												
Design														
Construction														

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
402120	Coyote Creek at Rockspring	125	893	0	0	0	0	0	0	0	0	0	0	0	1,018

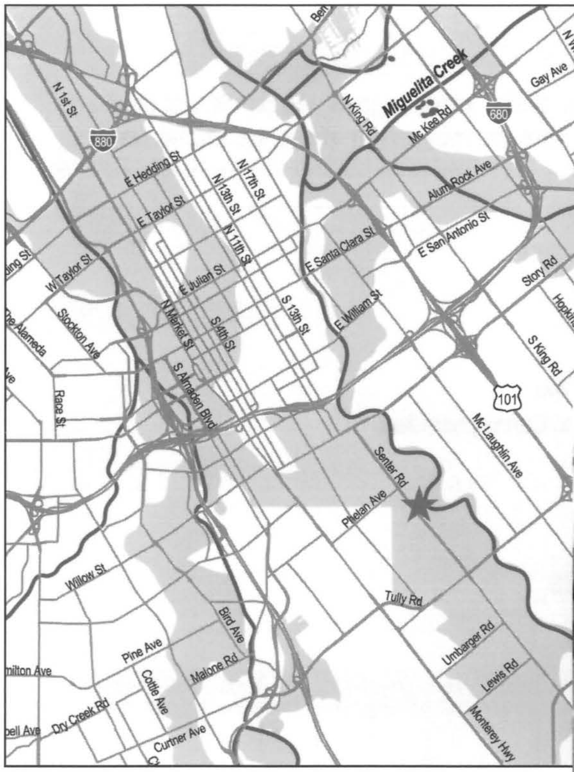
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

Potential cost sharing with the Army Corps of Engineers will be pursued if the project is reopened.

OPERATING BUDGET IMPACTS

Because the project was cancelled, there will be no operating budget impacts.



★ Project Location

▨ 1 Percent Floodplain

Receding floodwaters at the Rockspring neighborhood, January 1997.

Lower Silver Creek
Coyote Creek to Lake Cunningham

COYOTE WATERSHED

Project Number:
402601, 402603
402607, 402608, 401609

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project will perform all necessary work to plan, design, acquire right of way, permit, and construct the 100-year level flood protection improvements, while improving stream values and habitat, between Coyote Creek and Cunningham Avenue. Work will be performed in partnership with the Natural Resource Conservation Service (NRCS).

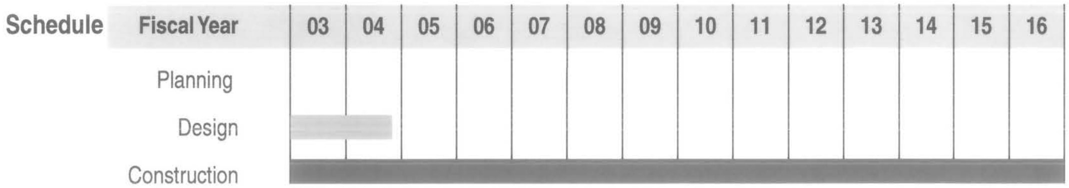
This effort is accounted for in the following job numbers:
402601 = Reach 3, McKee Rd to I-680
402603 = Reach 1-2, Coyote Ck to McKee Rd
402607 = Reach 4, I-680 to N. Babb Creek
402608 = Reach 5-6, N. Babb Ck to Cunningham Ave
402609 = Reimbursable work (LERRDS), Coyote to Cunningham Ave

Construction of Lower Silver Creek downstream of King Road.

SCHEDULE

INITIATION AND COMPLETION DATES

January 1997 to October 2016



Flooding from Lower Silver Creek in San Jose in February 1969 at future site of Lake Cunningham.

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
402601	L. Silver Creek, McKee-680 (R3)	6,486	16,282	0	0	0	0	0	0	0	0	0	0	0	22,768
402603	L. Silver Creek, Coyote Creek-McKee (R1-2)	19,826	333	0	0	0	0	0	0	0	0	0	0	0	20,159
402607	L. Silver Creek, 680-N. Babb (R4)	1,599	3,544	0	0	0	0	0	0	0	0	0	0	1,087	6,230
402608	L. Silver Creek, N Babb-Cunningham (R5-6)	4,072	3,099	0	0	0	0	0	0	0	0	0	0	15,787	22,958
402609	L. Silver Creek, Coyote-Cunningham Reimbursable	9,827	12,574	0	0	0	0	0	0	0	0	0	0	1,973	24,374
Total		41,810	35,833	0	0	0	0	0	0	0	0	0	0	18,847	96,489

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
The amount shown in the Cost Chart is the estimated total project cost, including both NRCS's and the District's share.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

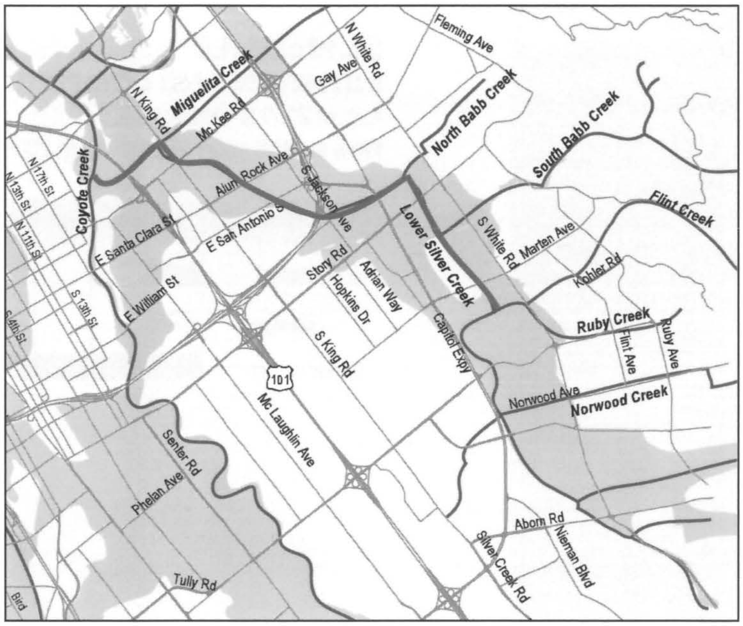
NRCS, State of California, and District

COST SHARING FORMULA

NRCS may reimburse the District for up to 50 percent of project cost. The State will reimburse approximately 75 percent of the District's right of way costs and 90 percent of the District's utility relocation costs.

REIMBURSEMENT SCHEDULE

See table below.



■ Project Limits

▨ 1 Percent Floodplain

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
402609	L. Silver Creek, Coyote-Cunningham Reimbursable	State Subventions		0	600	0	0	0	0	0	0	0	0	14,360	14,960

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined upon completion of the design phase.

Silver/Thompson Creeks

Cunningham Avenue to Aborn Road

Project Number:
402610

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Remove sediment from the creeks and restore to original design capacity.
- Improve the local drainage, which will reduce the potential of sediment deposition and local flooding during storm events

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

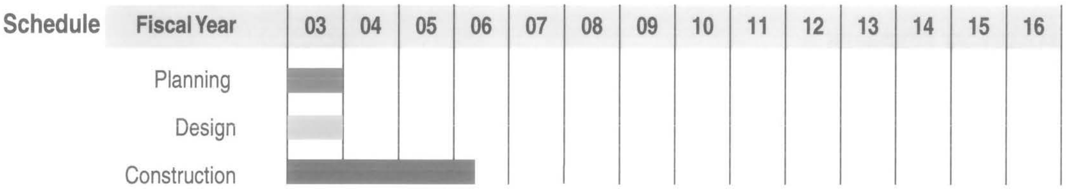
SCOPE OF WORK

The scope of this project consists of two phases of sediment removal between Cunningham Avenue and Quimby Road. Environmental clearances will be obtained through the multi-year Stream Maintenance Program permitting process

SCHEDULE

INITIATION AND COMPLETION DATES

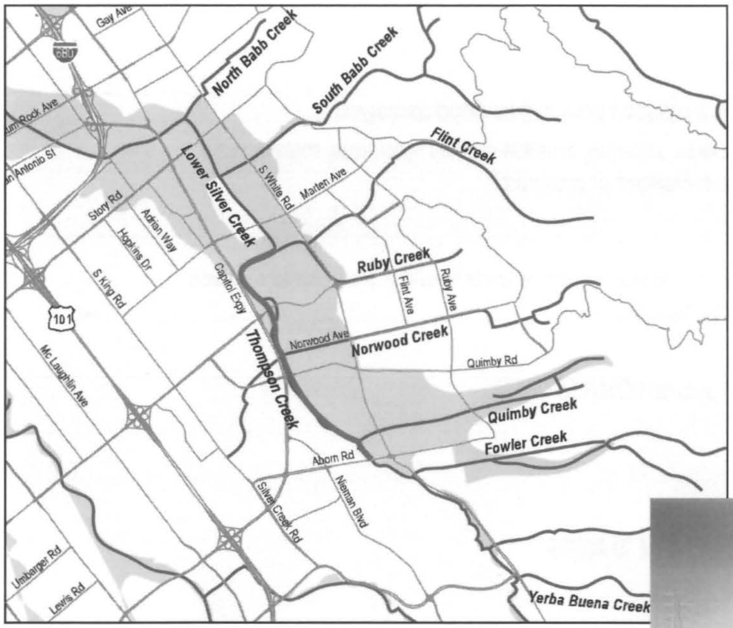
August 2000 to October 2005
Work in fiscal years 2004 through 2006 will be paid from prior years' appropriations.



COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
402610	Silver/Thompson Creeks	2,692	2,178	0	0	0	0	0	0	0	0	0	0	0	4,870

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



▓ Project Limits

░ 1 Percent Floodplain

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No new operating budget impacts are anticipated as this is a maintenance project which is being contracted, due to the size and complexity of the work effort required.

Thompson Creek, downstream of Quimby Road

Lake Cunningham Improvements

Project Number:
402611

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide 100-year level of flood protection in conjunction with the Lower Silver Creek channel improvements.
- Modifications to Lower Silver Creek adjacent to the lake will be done so as to protect or improve stream habitat values.
- Mitigate impacts to wetlands.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

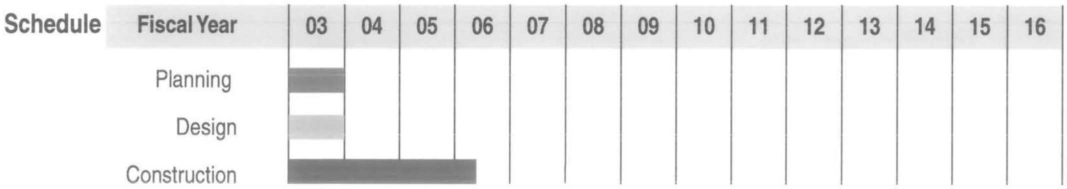
SCOPE OF WORK

- Prepare plans and specifications for design improvements to allow the Lake to function as a detention basin, as originally planned.
- Construct Lake improvements.
- Prepare floodplain analysis and submit LOMR to FEMA.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2007



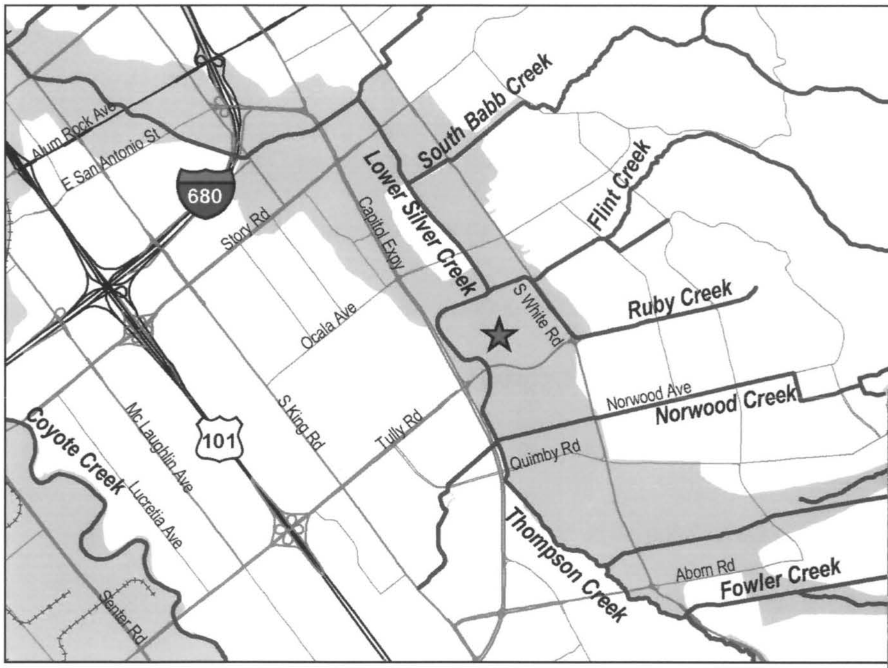
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
402611	Lake Cunningham Improvements	1	1,399	59	90	1,544	0	0	0	0	0	0	0	0	3,094

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the design phase.



★ Project Location

▨ 1 Percent Floodplain

Aerial photo of Lake Cunningham

Upper Penitencia Creek

Coyote Creek to Dorel Drive

Project Number:
403203, 403204
403205

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Provide for recreation improvements consistent with the City of San Jose and Santa Clara County Parks Master Plans.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project will accomplish the following for the entire Upper Penitencia Creek project:

- District will prepare plans and specifications for the bypass channel between Coyote Creek and King Road (to be turned over to Corps for construction).
- District will coorinate with Army Corps of Engineers (COE) the development of a Feasibility Report and an EIR/EIS for the entire project.
- Corps will develop plans/specifications for all project components upstream of the District's bypass project.
- District will coordinate with the Corps and be responsible for LERRD's (acquisition of right of way, utility and bridge relocations).
- District will coordinate with the City of San Jose parks department and incorporate the trails master plan projects when feasible.

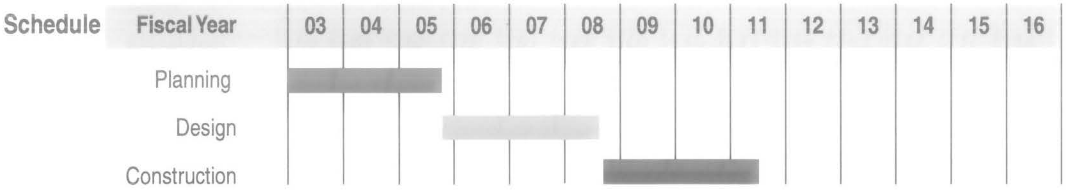
This effort is accounted for in the following job numbers:
403203 = District coordination with Corps for Corps' responsible work
403204 = Bypass channel from Coyote to King
403205 = District's LERRD responsibility from Coyote to Dorel

Flooding from Upper Penitencia Creek at Lenfest Road in March 1982.

SCHEDULE

INITIATION AND COMPLETION DATES

January 2000 to January 2011



COST (inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
403203	U. Penitencia Ck., Coyote-Dorel (Corp Coord)	5,162	2,598	0	0	0	0	2,078	2,075	2,075	0	0	0	0	13,985
403204	U. Penitencia Ck. Bypass, Coyote-King	2,959	1,653	0	0	0	0	2,233	2,812	372	0	0	0	0	10,019
910905	U. Penitencia Ck., Coyote-Dorel (LERRD)	1,742	3,746	0	0	0	0	0	0	0	0	0	0	0	5,488
Total		9,863	7,987	0	0	0	0	4,308	4,887	2,447	0	0	0	0	29,493

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
Dollars shown in Cost Chart are only the estimated District share of the total project costs and do not include the Corp's portion.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

Corps of Engineers, State of California, and District.

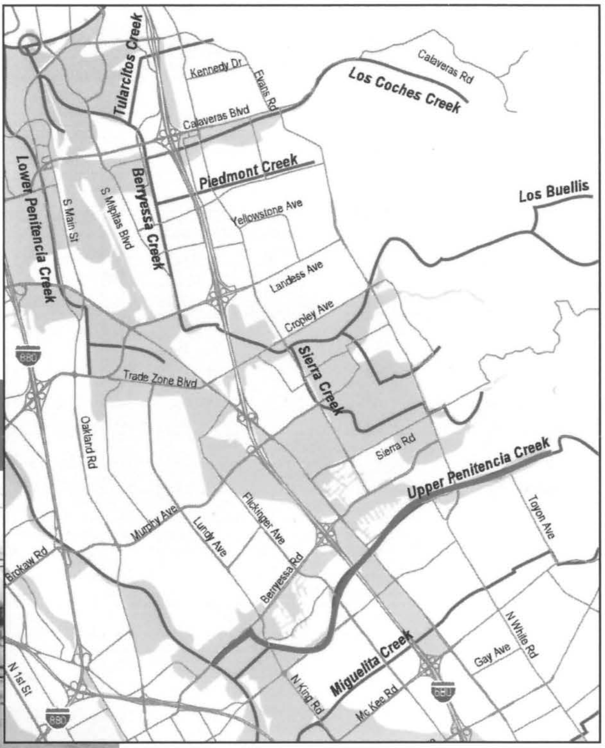
COST SHARING FORMULA

The COE will pay for no less than 50 percent of the project cost. The project has not yet been authorized by the State Legislature. However, assuming authorization is obtained, the State Subventions Program will reimburse 70 percent of District's share of the project costs.

REIMBURSEMENT SCHEDULE

See table below.

Flooding from Upper Penitencia Creek at Maybury Road in March 1982.



▨ Project Limits
▨ 1 Percent Floodplain

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
403205	U. Penitencia Creek, Coyote-Dorel (LERRD)	State Subventions		0	0	0	0	0	0	0	0	0	0	2,668	2,668

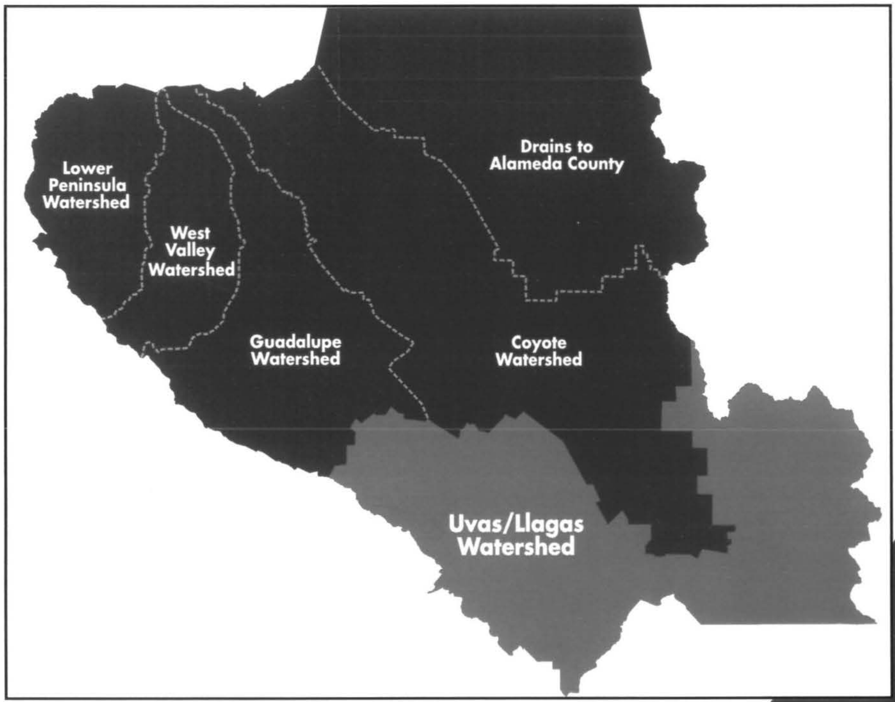
OPERATING BUDGET IMPACTS

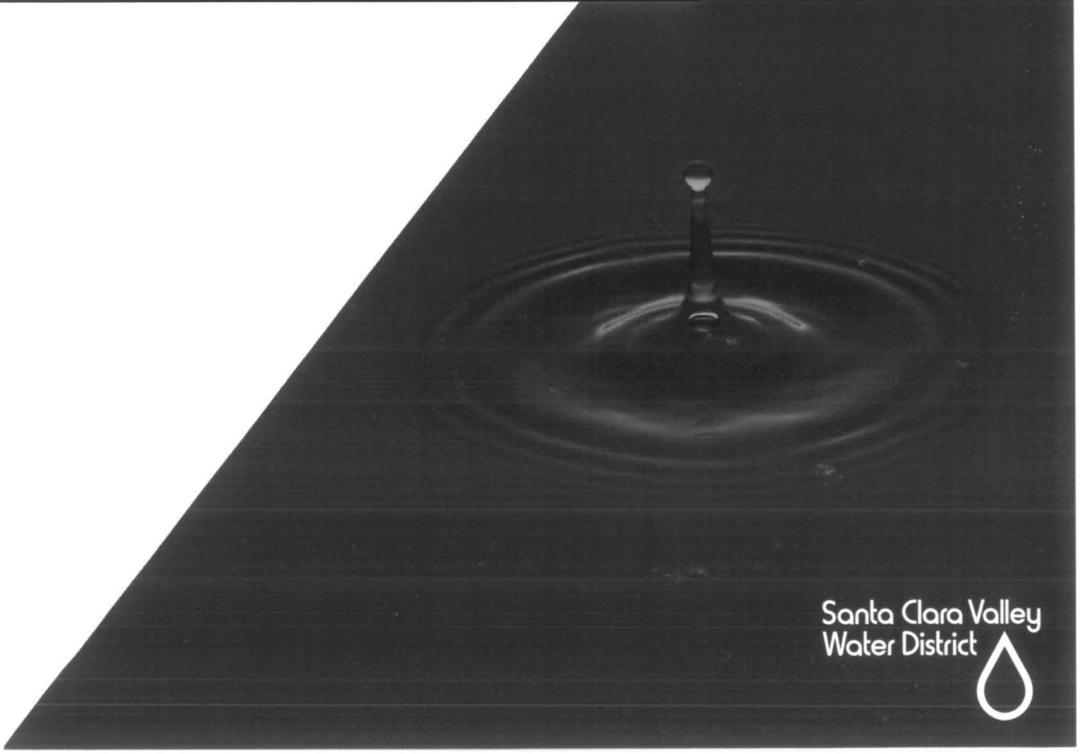
Operating budget impacts will be determined during the planning phase.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Uvas/Llagas Watershed Fund





Santa Clara Valley
Water District

UVAS/LLAGAS WATERSHED FUND

FUND OVERVIEW

The Uvas/Llagas Watershed Fund (Fund) is a special revenue fund. It was initially established to account for the South Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Uvas/ Llagas Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program within the watershed.

The Uvas/Llagas Watershed encompasses the south portion of the Santa Clara County including the community of San Martin and the Cities of Morgan Hill and Gilroy.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Uvas/Llagas Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - COMPLETED

- Uvas Creek from Santa Teresa Boulevard to Thomas Road
- Lower Llagas Creek from Pajaro River Confluence to Buena Vista Avenue
- Uvas/Llagas Vegetation Buffer Strips

MAJOR PROJECTS - CURRENT

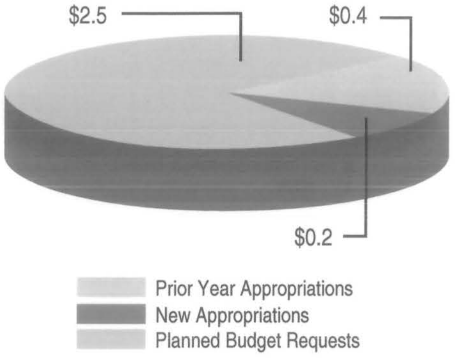
None

MAJOR PROJECTS - FUTURE

- Lower Llagas Restore Capacity

Uvas/Llagas Watershed Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

Total: $3.06 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
502801S	L. Llagas Creek, Pajaro-Buena Vista	3,144	386	126	28	8	8	0	0	0	0	0	0	0	3,700
509001	Uvas/Llagas Vegetation Buffer Strips	37	(9)	0	0	0	0	0	0	0	0	0	0	0	28
50C132	L. Llagas Restore Capacity, 152-Pajaro River	0	0	0	0	0	0	0	0	660	660	660	0	0	1,980
	Total	3,181	376	126	28	8	8	0	0	660	660	660	0	0	5,708
	Total (with inflation)	3,181	376	126	28	9	9	0	0	812	836	861	0	0	6,238
	Capital Investment		376	154		2,527									3,057

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
502801S	L. Llagas Creek, Pajaro-Buena Vista	0	1,560	0	0	0	0	0	0	0	0	0	1,560

A brief description of changes and source of reimbursement can be found on project pages.

FUNDING SOURCES

There are three categories of revenue available to the Uvas/Llagas Watershed for funding capital projects. These categories of revenue include available annual revenue, partnerships and capital reserve.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

See Lower Llagas Creek project for details.

CAPITAL RESERVE

The Uvas/Llagas Watershed Fund will have accumulated approximately $0.81 million in its capital reserve at the beginning of FY 2004.

Lower Llagas Creek

Pajaro River to Buena Vista Avenue

Project Number:
502801, 502803

Sponsoring Division:
Watershed Management

Project Manager:
Bal Ganjoo

OVERVIEW

OBJECTIVES

- Provide an increased level of flood protection for Lower Llagas Creek from Pajaro River to Buena Vista Avenue.
- Environmental cleanup of the Church Street property.
- Protect undamaged sections of Day Road Interceptor Ditch in Gilroy by repairing damaged section.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.2 - "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits."
- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides funds for nonreimbursable activities related to construction of U.S. Natural Resource Conservation Service (NRCS) Lower Llagas Creek Flood Protection Project from Pajaro River to Buena Vista Avenue. Flood protection construction was completed in 1996. The remaining task was the environmental cleanup of the Church Street property. The District purchased the Church Street site as part of the Llagas Creek flood-control channel project in the early 1980's. The District removed two underground storage tanks from the property and completed the flood control project. The extent of contamination was assessed and the District recommended Oxygen Releasing Compounds installation as the best cleanup method. The Regional Water Quality Control Board, as the oversight agency, accepted the District's proposed cleanup method. The first phase of cleanup began in 1999 the district has been monitoring the cleanup and will request closure from the Regional Water Quality Control Board. Additional work to repair concrete paving and slope lining to Day Road interceptor Ditch was approved by the Board in August 2002.

Llagas at Bloomfield Road

This effort is accounted for in the following job numbers:
502801 = Costs that are reimbursable from the State Subventions Program.
502803 = Nonreimbursable

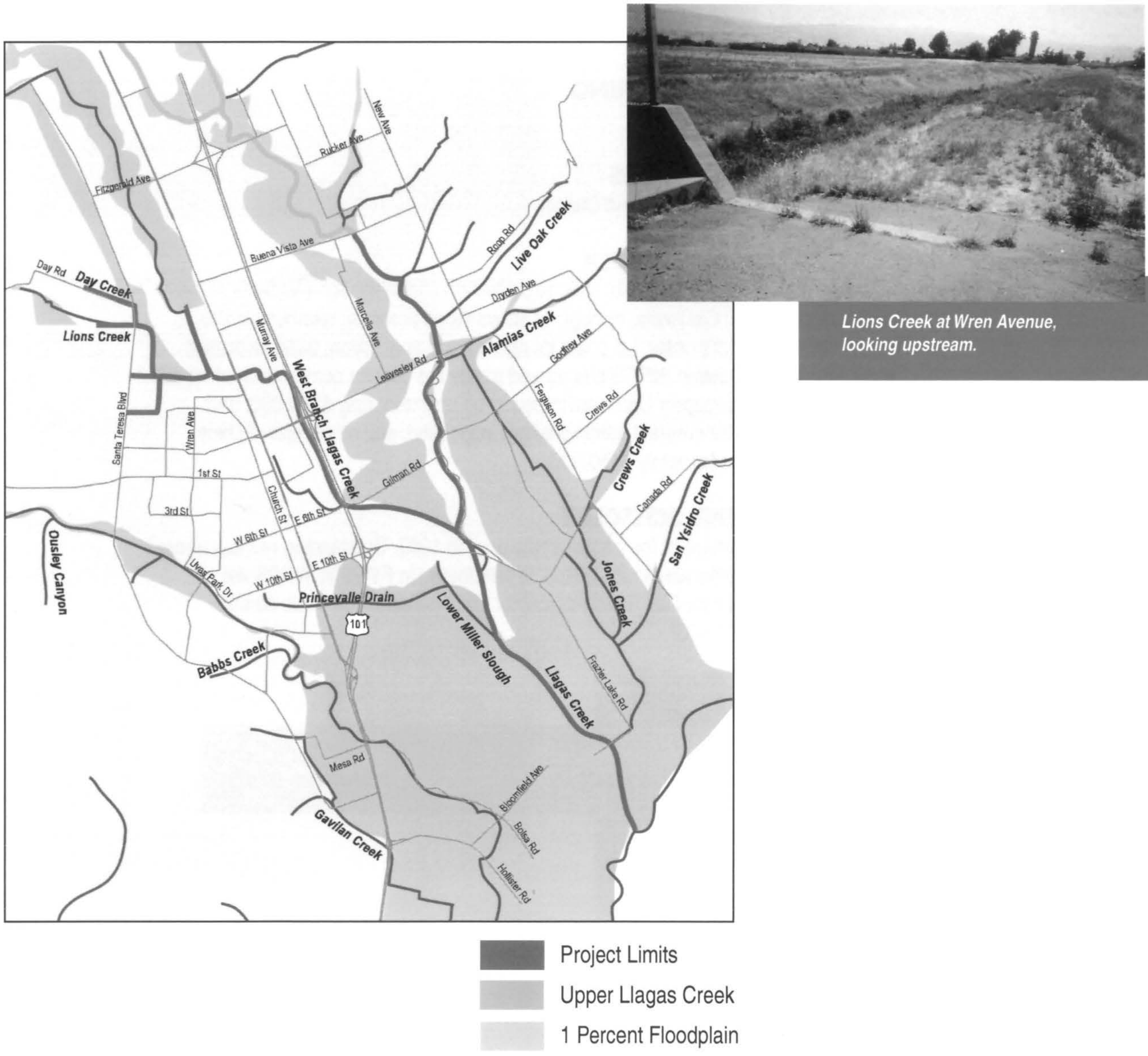
SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to December 2006

Major constructions was completed in 1996. This schedule includes post-construction activities.

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Planning														
	Design														
	Construction	■	■	■	■	■									



Lions Creek at Wren Avenue, looking upstream.

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
502801	L. Llagas Creek, Reimbursable	2,424	149	0	0	0	0	0	0	0	0	0	0	0	2,572
502803	L. Llagas Creek, Nonreimbursable	720	237	126	28	8	8	0	0	0	0	0	0	0	1,127
Total		3,144	386	126	28	8	8	0	0	0	0	0	0	0	3,700

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
NRCS, the State of California and District

COST SHARING FORMULA
NRCS is responsible for the costs of flood protection and mitigation elements of the project. The State of California, through its subventions program, reimburses 100 percent of the District's costs, i.e. costs for right-of-way acquisition, utility relocation and bridge reconstruction. NRCS has agreed to pay the cost for construction of repairs to the Day Road Interceptor Ditch, estimated to be approximately $300,000, and the District will pay for contract administration, inspection, and other related costs, estimated to be approximately $150,000.

REIMBURSEMENT SCHEDULE
NRCS has paid its share of the project costs prior to 1999. Outstanding reimbursement from the State of California, $1.26 million, is anticipated in FY 2004. NRCS will reimburse the District for Day Road Interceptor Ditch construction costs curently estimated to be $300,000.

Llagas at Bloomfield Bridge, looking upstream.

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year 03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
502801	L. Llagas Creek, Reimbursable	State Subventions	0	1,260	0	0	0	0	0	0	0	0	0	1,260
502803	L. Llagas Creek, Noneimbursable	Natural Resource Conservation Service	0	300	0	0	0	0	0	0	0	0	0	300
Total			0	1,560	0	0	0	0	0	0	0	0	0	1,560

OPERATING BUDGET IMPACTS

Operating budget impacts are being developed and will be reported in the near future.

Lower Llagas Restore Capacity

Highway 152 to Pajaro River

Project Number:
50C132

Sponsoring Division:
Watershed Management

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Restore flood capacity in Lower Llagas Creek between Highway 152 and the Pajaro River.
- Integrate flood protection with habitat protection to satisfy federal and state ESA regulations.
- Coordinate with South County Wastewater Authority as a principal stakeholder and water resource co-planner

BENEFITS

- Policy EL-7, "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."
- Policy E-2, Article 2.2 - "There is reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

Conduct Planning-level work - prepare Feasibility Study/ Engineer's Report to address work to restore flood capacity to Lower Llagas Creek; Prepare Habitat Management Plan to address ESA habitat protection; Prepare CEQA document; Coordinate with South County Regional Wastewater Authority; Coordinate with Regulatory Authorities (e.g. NRCS - Maintenance Agreement & Central Coast RWQCB); Prepare construction Plans & Specifications (for flood protection & habitat protection/enhancement); Prepare 3M plan (Mitigation/ Monitoring/ Maintenance).

SCHEDULE

INITIATION AND COMPLETION DATES

July 2009 to June 2012
(Planning and Design Only)

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning								■	■					
Design										░				
Construction														

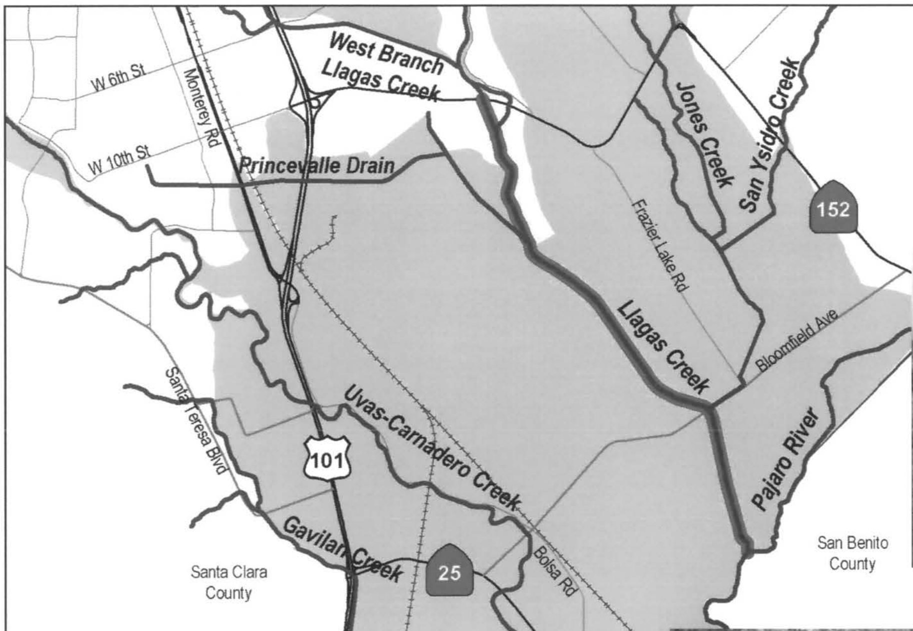
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
50C132	Lower Llagas Restore Capacity 152-Pajaro River	0	0	12	12	0	0	0	0	660	660	660	0	0	1,980

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
Operating budget impacts will be determined during the planning phase.

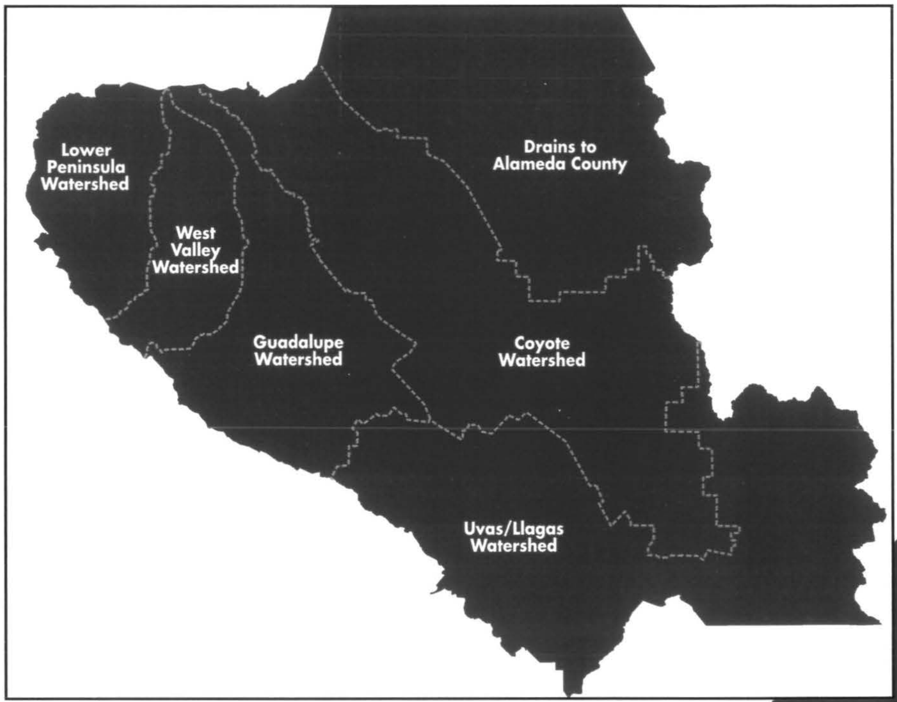


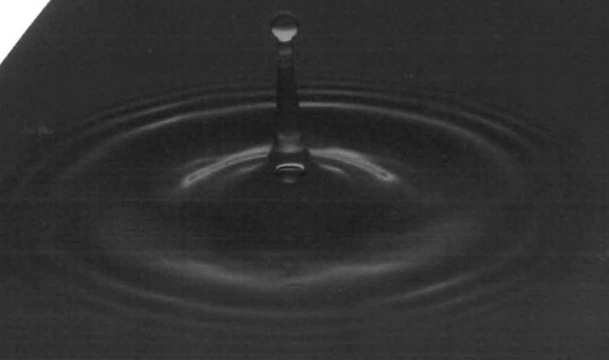
Lower Llagas Creek near Pajaro River.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Clean Safe Creeks & Natural Flood Protection Fund





Santa Clara Valley
Water District

CLEAN, SAFE CREEKS & NATURAL FLOOD PROTECTION FUND

FUND OVERVIEW

The Clean, Safe Creeks and Natural Flood Protection Fund (Fund) is a special revenue fund. It was established in FY 2002 to account for special tax revenue, approved in November 2000 by voters in Santa Clara County. This revenue is restricted to financing the costs of the Clean, Safe Creeks and Natural Flood Protection Program.

The Clean, Safe Creeks and Natural Flood Protection Program reflects the input of residents, community leaders, business owners, organizations and agencies throughout Santa Clara County. It is a countywide program designed to protect valley homes, schools, businesses, and transportation systems from flooding, while at the same time improving water quality, maintaining and restoring riparian corridor for wildlife habitat, and creating trails and parks for recreational enjoyment.

The public supported the program by voting to approve a special parcel tax in November 2000 to fund it. This special parcel tax will cost residents approximately $39 per household per year, raising $24.7 million (1999 dollars) annually for 15 years and then sunsetting to zero. Approximately 70 percent of the 15-year total is designated for the capital improvement program.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Clean, Safe Creeks and Natural Flood Protection Program included a clearly defined capital improvement program. Commencing in FY 2002, the District will progressively implement the projects identified in the capital improvement program according to the schedules presented to the voters. The Costs chart, shown on the following pages, is the preliminary implementation plan for the capital improvement program. Following is the implementation status:

MAJOR PROJECTS - CURRENT

West Valley Watershed

- Calabazas Creek from Miller Avenue to Wardell Road

Guadalupe Watershed

- Upper Guadalupe River from Highway 280 to Blossom Hill Road

Coyote Watershed

- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road
- Coyote Creek from Montague Expressway to Highway 280

Uvas/Llagas Watershed

- Upper Llagas Creek from Buena Vista Avenue to Wright Avenue

MAJOR PROJECTS - FUTURE

Lower Peninsula Watershed

- Permanente Creek from San Francisco Bay to El Camino
- San Francisquito Creek from San Francisco Bay to Searsville Dam

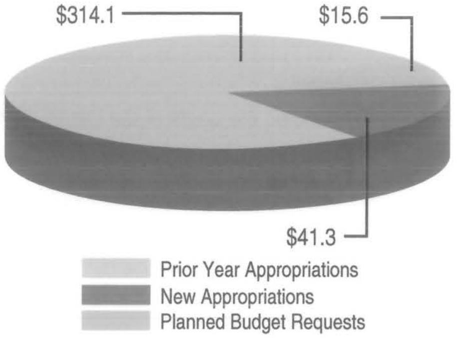
West Valley Watershed

- Sunnyvale West Channel from Guadalupe Slough to Highway 101
- Sunnyvale East Channel from Guadalupe Slough to Highway 280

Clean Safe Creeks & Natural Flood Protection Fund Estimated Capital Investment

Fiscal Year 2004–Fiscal Year 2016

Total: $371.0 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
206740S	Habitat Enhancement Program	0	0	5,369	1,776	2,906	2,153	2,153	2,153	2,153	2,153	2,153	2,153	6,459	31,581
260901	Open Space Trails & Parks Program	0	0	2,489	981	926	948	948	948	948	948	948	948	2,844	13,876
26C178	Permanente Creek Bay to Foothill	0	0	0	0	0	0	0	6,996	6,996	6,996	6,996	1,060	0	29,044
26C179	San Francisquito Creek, Bay to Searsville	0	0	0	0	0	0	2,120	2,120	2,120	2,120	0	0	0	8,480
26C232	Sunnyvale East Channel, Guadalupe-280	0	0	0	0	0	0	890	890	890	890	4,397	4,397	13,191	25,545
26C233	Sunnyvale West Channel, Guadalupe-101	0	0	0	0	0	668	668	668	668	2,470	265	0	0	5,407
261001	Calabazas Creek, Miller-Wardell	0	0	380	735	1,103	1,325	1,325	1,177	10,399	10,399	10,399	0	0	37,242
251731S	Guadalupe River, 280-Blossom Hill Road	7,824	3,079	9,170	13,840	10,740	12,993	9,824	3,974	4,992	519	4,092	0	0	81,048
261741S	Berryessa Creek, Calavaras-Old Piedmont	1,765	2,668	0	99	841	841	841	1,590	1,590	1,590	1,590	1,590	4,770	19,776
261743	Coyote Creek, Montague Exp. to Highway 280	328	1,402	1,550	4,189	817	721	775	989	1,811	0	4,157	4,157	12,471	33,367
261751S	Uvas Llagas Creek, Buena Vista-Wright	2,074	8,420	321	433	0	1,914	2,128	1,854	2,748	2,200	2,200	8,700	0	32,992
	Total	11,991	15,569	19,280	22,053	17,333	21,563	21,672	23,359	35,315	30,285	37,197	23,005	39,735	318,358
	Total (with inflation)	11,991	15,569	19,280	22,053	18,940	24,269	25,124	27,893	43,434	38,365	48,535	30,916	56,669	383,039
	Capital Investment		15,569	41,333		314,145									371,048

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
261731S	Guadalupe River Upper, 280-Blossom Hill Road	0	0	1,500	0	0	0	0	0	0	0	0	1,500
261751S	Uvas Llagas Creek, Buena Vista-Wright	0	0	0	0	1,750	1,750	1,750	1,750	1,750	1,750	0	10,500
Total		0	0	1,500	0	1,750	1,750	1,750	1,750	1,750	1,750	0	12,000

A brief description of estimated reimbursements can be found on project pages.

FUNDING SOURCES

There are four categories of revenue sources available to the Clean, Safe Creeks and Natural Flood Protection Fund for funding capital projects. These sources include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

Based on input from the community, it was decided that the Clean Safe Creeks and Natural Flood Protection plan would be built on a pay-as-you-go structure. The plan does not include debt financing to accelerate the construction of capital projects; rather, projects will be constructed, as money becomes available.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available to the Capital Improvement Program.

PARTNERSHIPS

See Upper Guadalupe River, Berryessa Creek and Upper Llagas Creek projects for details.

CAPITAL RESERVE

The Clean Safe Creeks and Natural Flood Protection Fund will have approximately $12 million in its capital reserve at the beginning of FY 2004.

Project Number:
260740, 26C170
260701

Sponsoring Division:
Watershed Management

Project Manager:
Beau Goldie

OVERVIEW

OBJECTIVES

The objective of this program is to meet the District's obligation under the Clean, Safe Creeks and Natural Flood Protection program which calls for the "creation of additional wetlands, riparian habitat and favorable steam conditions for fisheries and wildlife (equivalent to 100 acres of tidal or riparian habitat created or restored)."

BENEFITS

- Policy E-3, Article 3.1.1.1 - "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."
- Policy E-3, Article 3.1. - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

Identification of potential habitat enhancement sites; Screening of potential sites; Acquisition of parcels - fee title or conservation easement; Preparation of CEQA document at planning level; Technical Investigation for restoration, rehabilitation, or enhancement; Preparation of enhancement opportunities and constraints report; Restoration and enhancement proposal preparation - Feasibility Study, Engineer's Report; Site Maintenance, Management and Monitoring Plan.

This work is accomplished in the following job numbers:

260740 Upper Pajaro Watershed Vegetated Buffer Strips
The scope of this project includes property acquisition, planning, design, vegetation installation, maintenance and water quality monitoring of vegetated buffer strips, and compliance and reporting tasks associated with the State Water Resources Control Board's 319(h) grant funding program.

26C170 Lower Silver Creek (Habitat Enhancement Portion) - The Lower Silver Creek Flood Protection Project extends 4.6 miles from Coyote Creek to Lake Cunningham. Due to limited right-of-way a new concrete channel was originally proposed along a portion of the project to convey the design flows. The Board approved environmental enhancements to purchase additional right of way to reduce the amount of concrete hardscape and construct a wider, more natural earthen channel. The total increase in environmental habitat created as a result of the enhancements includes:

- 1.7 acres of emergent wetlands
- 2.2 acres of shaded riparian habitat, and
- 1.4 acres of upland trees and shrubs.

Additionally, consistent with Outcome #4 of the Clean, Safe Creeks Program, the enhanced channel configuration provides for an additional 6,700 LF of maintenance roads which can be developed into trails and public access in cooperation with the City of San Jose.

260701 Habitat Enhancement - This is the place holder project number to reserve funding committments for Habitat Enhancement Program - approximately $2.0 million per year (in FY 2000 pyv)

SCHEDULE
INITIATION AND COMPLETION DATES
April 2003 to June 2016

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Planning	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Design	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Construction	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Typical South County site for which buffer strips may be helpful.

Additional right of way was purchased to allow a more natural channel to be built.

Construction of Lower Silver Creek channel modifications downstream of King Road.

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
260740	Upper Pajaro Vegetation Buffer Strips	0	0	139	138	403	0	0	0	0	0	0	0	0	680
26C170	Lower Silver Creek Habitat Enahnce Xfer	0	0	1,000	1,000	1,000	1,000	0	0	0	0	0	0	0	4,000
260701	Habitat Enhancement Plan	0	0	4,230	638	1,503	1,153	2,153	2,153	2,153	2,153	2,153	2,153	6,459	26,901
Total		0	0	5,369	1,776	2,906	2,153	2,153	2,153	2,153	2,153	2,153	2,153	6,459	31,581

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

Yes.

PARTNERING AGENCIES

A grant from the State Water Resources Control Board for the Vegetative Buffer Strips has been approved.

COST SHARING FORMULA

The grant from State Water Resources Control Board should pay for about half of the buffer strips project.

REIMBURSEMENT SCHEDULE

Not yet determined.

OPERATING BUDGET IMPACTS

Operating budget impacts are expected and will be determined during the Planning Phase of each job.

Open Space
Trails & Parks Program

Project Number:
260901

Sponsoring Division:
Watershed Management

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Provide access to 70 miles of open space and trails over the next 15 years in Santa Clara County
- Increase community recreation opportunities
- Provide bicycle paths/ trails that will serve as alternative transportation routes to relieve highway congestion and reduce air pollution
- Incorporate open space, trails and parks into flood protection projects
- Create a mechanism to track funds spent on trail/ parks/ open space from the Clean, Safe Creeks & Natural Flood Protection Fund

BENEFITS

- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate.

SCOPE OF WORK

Identify potential properties; Prioritize potential trails, parks and open spaces; Coordinate with City of San Jose, other agencies & entities; Acquire open space, create trails - fee title or conservation easements; Coordinate with Regulatory/ Permitting Agencies; Prepare Feasibility Studies; Prepare Program-level CEQA document; Develop site management and maintenance plans.

Los Alamitos Trail

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2016

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning		■	■	■	■	■	■	■	■	■	■	■	■	■
Design		▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Construction		■	■	■	■	■	■	■	■	■	■	■	■	■

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
260901	Open Space Trails & Parks Plan	0	0	2,489	981	926	948	948	948	948	948	948	948	2,844	13,876

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

There may be potential cost sharing on partnerships with the City of San Jose, the county, private landowners, the Santa Clara County Open Space District, county parks and other agencies or entities.

OPERATING BUDGET IMPACTS

There may be operating budget impacts on some proposed trail or open space projects. This information will be developed during the preparation of feasibility studies and site management plans for this project.

Trail along Coyote Creek adjacent to McCarthy Blvd.

Permanente Creek

San Francisco Bay to
Foothill Expressway

Project Number:
26C178

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection, reduce erosion and sedimentation, and reduce maintenance costs and improve safety and stability of failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

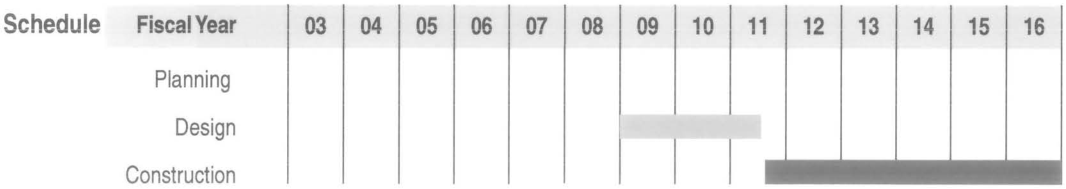
- Finish design and prepare plans and specifications.
- Construction.

The planning and initial phase of design for this project will be accomplished in Job #102401.

SCHEDULE

INITIATION AND COMPLETION DATES

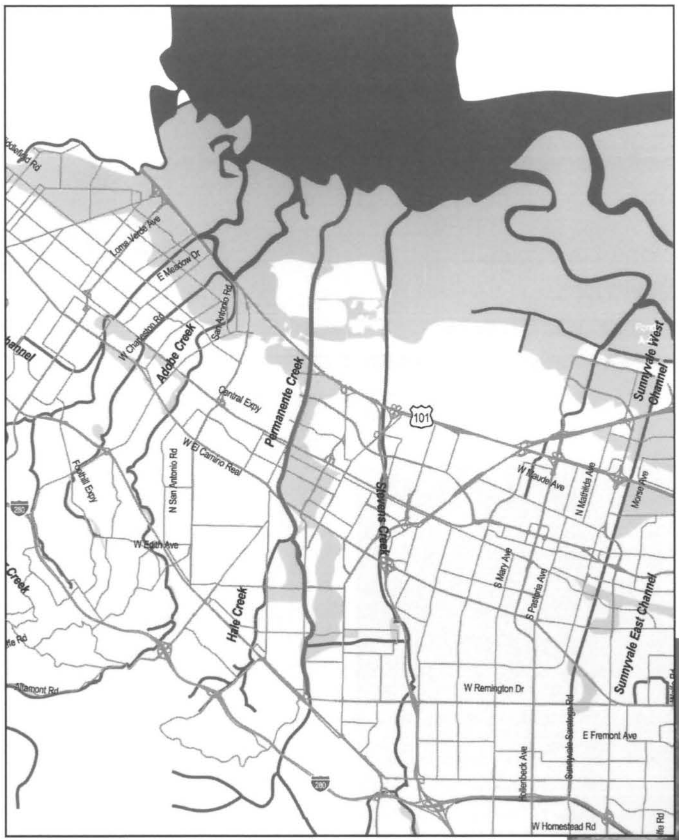
July 2008 to June 2016
(Finalize design documents and construct.)



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
26C178	Permanente Creek Bay-Foothill	0	0	0	0	0	0	0	6,996	6,996	6,996	6,996	1,060	0	29,044

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.



▆ Project Limits

▒ 1 Percent Floodplain

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Impacts on operating budget will be identified during the planning study conducted under Job #102401.

Flooding and debris along Permanente.

San Francisquito Creek

San Francisco Bay to
Searsville Dam

Project Number:
26C179

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide for flood protection, and erosion/sedimentation control, on San Francisquito Creek from San Francisco Bay to Searsville Dam.
- Provide for environmental restoration and enhancement benefits, where opportunities exist.
- Provide for recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project will provide funding for the District to:

- Complete the planning study, including environmental review.
- Complete design and prepare plans and specifications for the approved project.

San Francisquito Creek flooded over 300 homes in 1998, causing over $28 million in damages.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2007 to June 2011
(Finalize planning documents and complete design.)

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Planning														
	Design						▨	▨	▨	▨					
	Construction														

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
26C179	San Francisquito Creek, Bay-Searsville Dam	0	0	0	0	0	0	2,120	2,120	2,120	2,120	0	0	0	8,480

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

San Francisquito Creek Joint Power Authority (JPA), and Corps of Engineers (COE). The JPA is pursuing COE's participation in the feasibility study. The project is potentially a federal-local cooperative project. For planning purposes, no cost sharing is assumed for this project. This assumption is consistent with the Flood Protection and Stream Stewardship Program Plan.

COST SHARING FORMULA

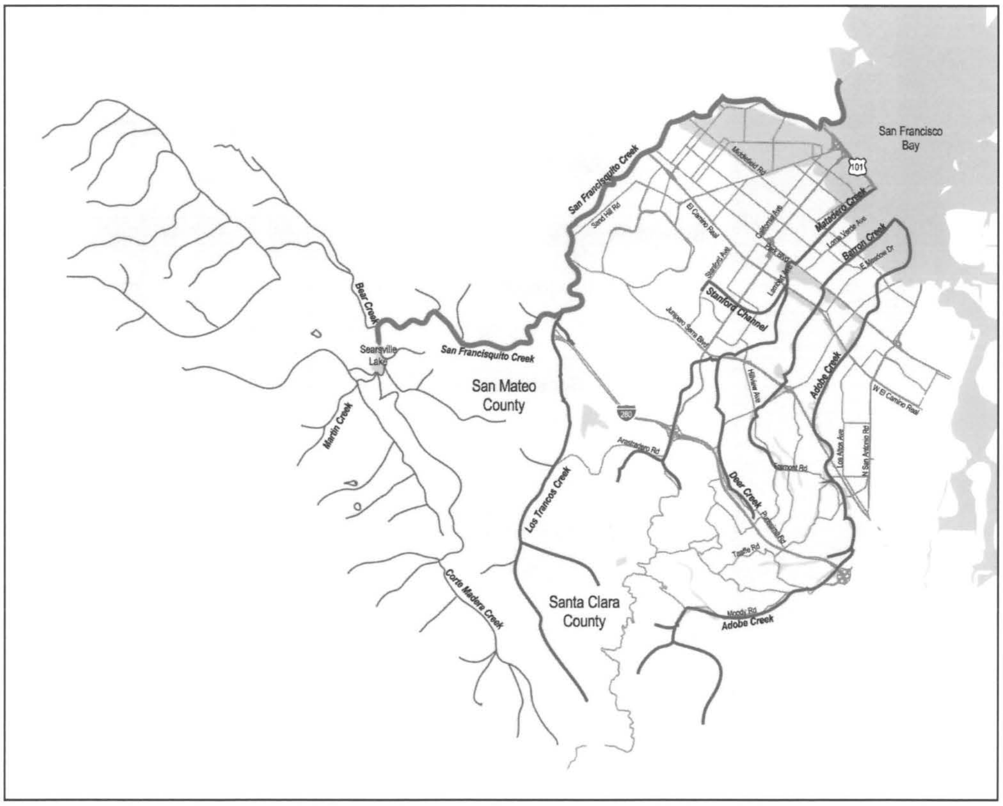
Undetermined

REIMBURSEMENT SCHEDULE

Undetermined

OPERATING BUDGET IMPACTS

Operating budget impacts will be developed during the planning study and will be reported later.



▇ Project Limits

▨ 1 Percent Floodplain

Sunnyvale East Channel

Guadalupe Slough
to Highway 280

Project Number:
26C232

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection on Sunnyvale East Channel.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

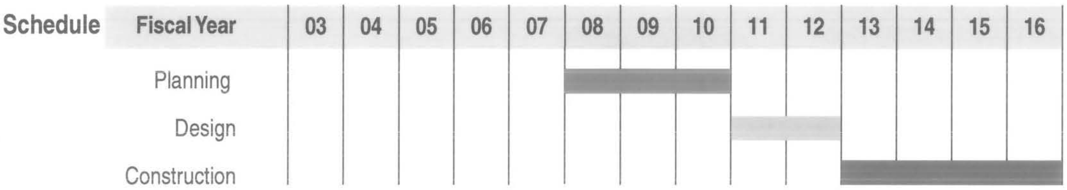
SCOPE OF WORK

This project, Sunnyvale East Channel from Guadalupe Slough to Interstate 280, develops a plan that reduces the potential for flood damage, reduces erosion and sedimentation, improves water quality, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2007 to June 2016



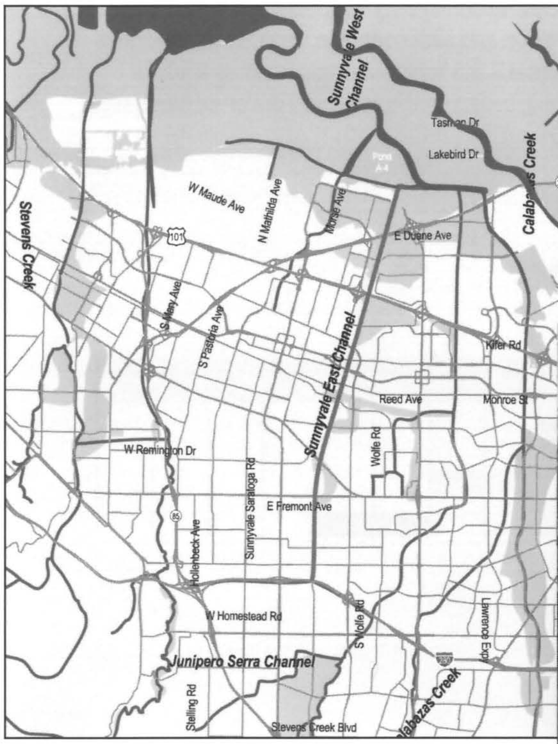
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
26C232	Sunnyvale East Channel, Guadalupe-280	0	0	0	0	0	0	890	890	890	890	4,397	4,397	13,191	25,545

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



▇ Project Limits

▒ 1 Percent Floodplain

Erosion occured along the Sunnyvale East Channel.

Sunnyvale West Channel

Guadalupe Slough
to Highway 101

Project Number:
26C233

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection on Sunnyvale West Channel.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

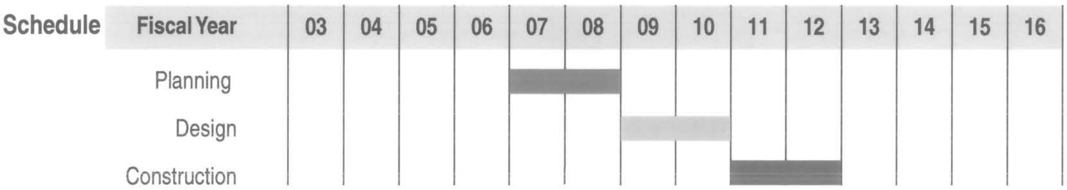
SCOPE OF WORK

This project, Sunnyvale West Channel from Guadalupe Slough to Hwy 101, develops a plan that mitigates the potential for flood damage, reduces erosion and sedimentation, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2012



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
26C233	Sunnyvale West Channel, Guadalupe-101	0	0	0	0	0	668	668	668	668	2,470	265	0	0	5,407

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

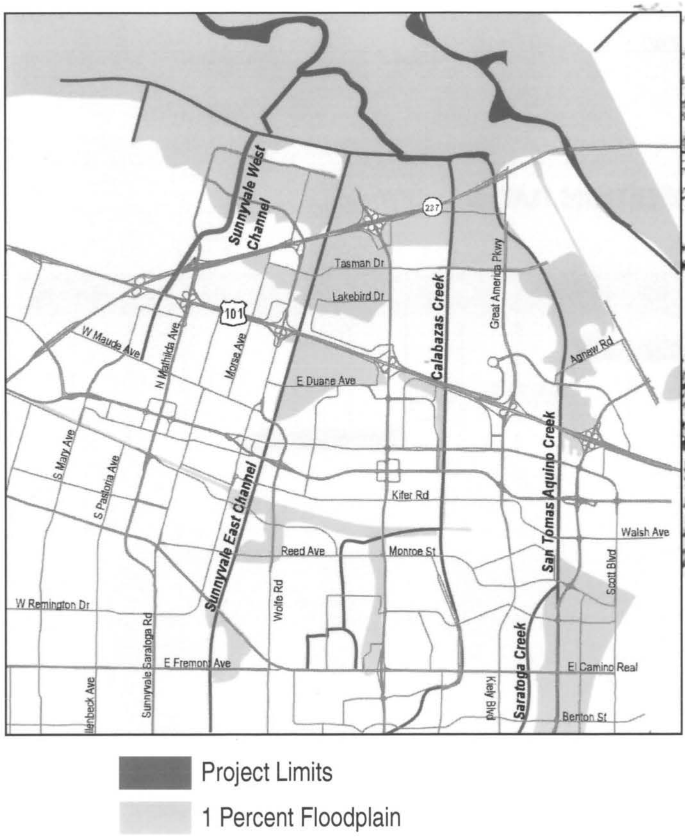
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

Sunnyvale West flooding upstream of Caribbean Drive in 1983.



Calabazas Creek

Miller Avenue to Wardell Road

Project Number:
261001

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection on Calabazas Creek from Miller Avenue to Wardell Road.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project-Calabazas Creek from Miller Avenue to Wardell Road-develops a plan that mitigates the potential for flood damage, reduces erosion and sedimentation, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2012

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning		■	■	■										
Design					■	■	■							
Construction								■	■	■				

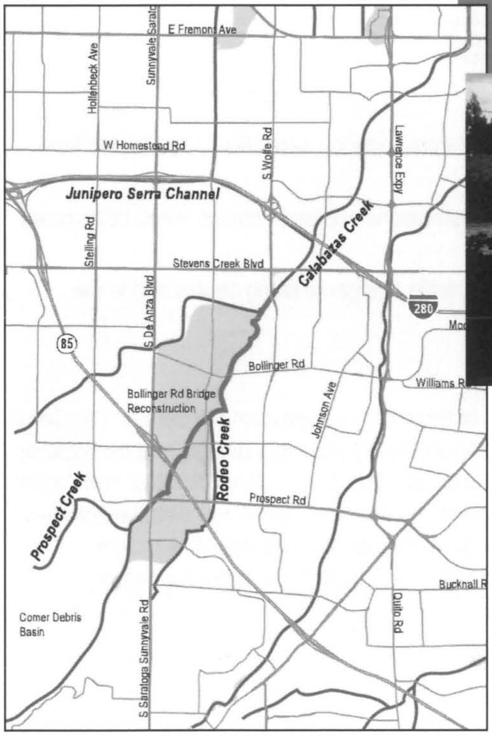
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appproriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
261001	Calabazas Creek, Miller-Wardell	0	0	380	735	1,103	1,325	1,325	1,177	10,399	10,399	10,399	0	0	37,242

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



▨ Project Limits

▨ 1 Percent Floodplain

Calabazas Creek overtops its banks, flooding neighborhood streets.

Guadalupe River Upper

Highway 280
to Blossom Hill Road

Project Number:
261731 261732 261733
261501 261502 261503
261504 261505

Sponsoring Division:
Watershed Management

Project Manager:
Dennis Cheong

OVERVIEW

OBJECTIVES

- Provide 1-percent flood protection on the upper reaches of Guadalupe River, from Interstate 280 to Blossom Hill and portions of Ross Creek and Canoas Creek.
- Provide, additionally, 1-percent flood protection for lower reach of Guadalupe River, from Highway 101 to I-880.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 12 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Provide opportunity to incorporate a continuous six-mile trail by connecting the trail at Interstate 280 to Alamitos Creek trail.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and its tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group (GWIWG).

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1.1.2 - "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This is a cooperative project between the U.S. Army Corps of Engineers (Corps) and the District. The Corps and the District will implement project work. The Corps is responsible for planning, design, and construction of the flood protection, mitigation, recreation, and trail elements, plus two bridges. The District is responsible for right-of-way acquisitions, utility relocations, and other bridge construction. Permit coordination activities and watershed integration issues will be addressed and resolved through the GWIWG. This project implements the preferred plan approved by the Board of Directors in August 2001, including design, preparation of plans and specifications, and construction.

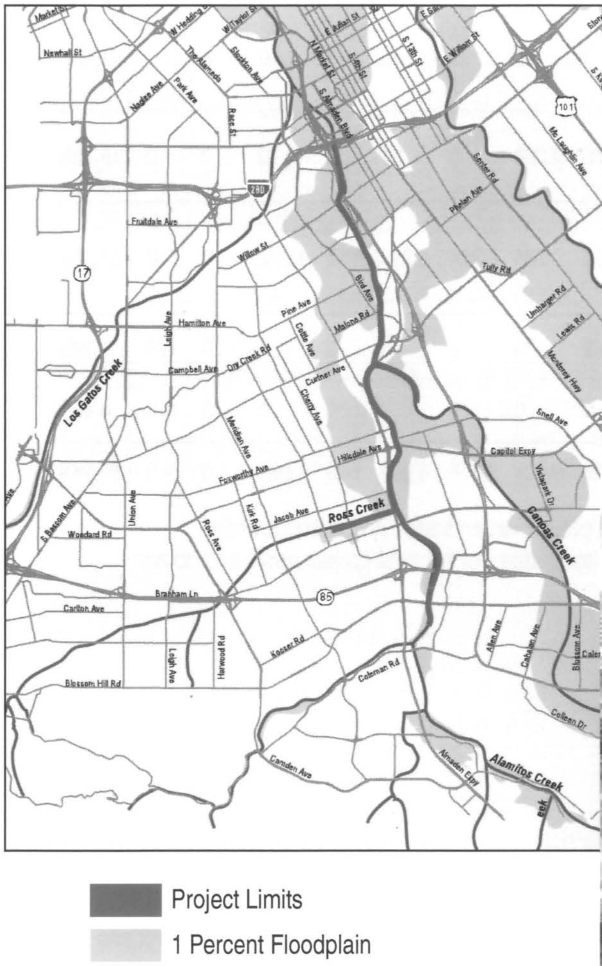
This effort will be accounted for in the following job numbers.
261731=Guadalupe River Upper, COE Coordination
261732=Guadalupe River Upper, Right of Way
261733=Guadalupe River Upper, Planning
261734=Guadalupe River Upper, Reach A
261505=Guadalupe River Upper, Reach A
261504=Guadalupe River Upper, GWIWG
261503=Guadalupe River Upper, Reach 7-12
261502=Guadalupe River Upper, Reach 6
261501=Guadalupe River Upper, Fish Passage Modification

SCHEDULE

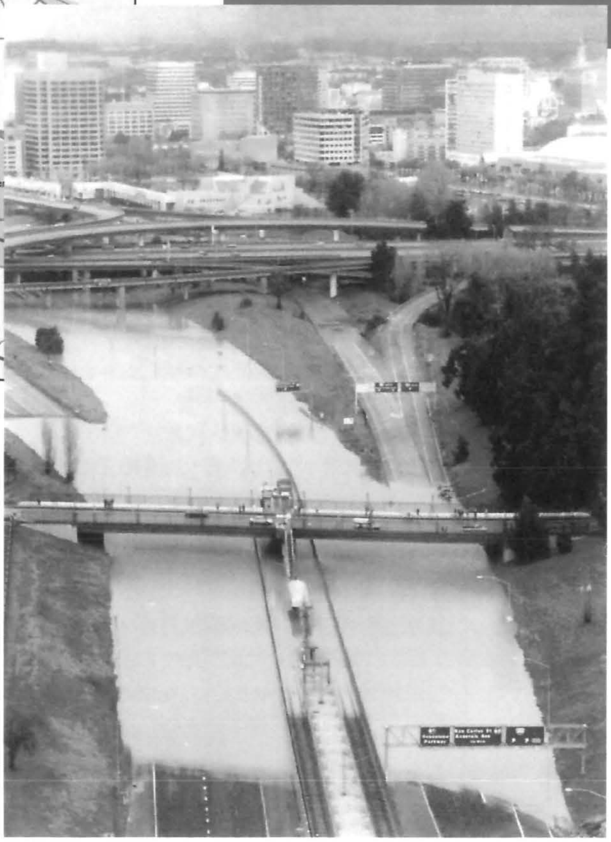
INITIATION AND COMPLETION DATES

July 1999 to June 2016

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning	■	■												
Design	■	■	■	■	■	■	■	■	■	■	■	■		
Construction	■	■	■	■	■	■	■	■	■	■	■	■	■	



Highway 87 and the parallel light-rail line — both major commuter thoroughfares — were closed by floods in 1995 and 1998.



San Jose Mercury News

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
261731	Guadalupe River Upper, Corps Coordination	641	216	0	0	0	0	0	0	0	0	0	0	0	858
261732	Guadalupe River Upper, Right of Way	2,285	1,343	0	0	0	0	0	0	0	0	0	0	0	3,628
261733	Guadalupe RIver Upper, Planning	498	(355)	0	0	0	0	0	0	0	0	0	0	0	143
261501	Guadalupe River Upper, Fish Passage Modifications	0	0	559	1,099	0	0	0	0	0	0	0	0	0	1,658
261502	Guadalupe River Upper, 280-SPRR (R6)	0	0	46	54	28	6,678	9,036	0	0	0	0	0	0	15,842
261503	Guadalupe River Upper, SPRR-Blossom Hill (R7-12)	0	1,875	8,475	12,588	10,712	6,315	788	3,974	4,992	519	4,092	0	0	54,329
261504	Guadalupe River Upper, GWIWC	0	0	91	99	0	0	0	0	0	0	0	0	0	190
261505	Guadalupe River Upper, Reach A	4,400	0	0	0	0	0	0	0	0	0	0	0	0	4,400
Total		7,824	3,079	9,170	13,840	10,740	12,993	9,824	3,974	4,992	519	4,092	0	0	81,048

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances. Dollars shown in Cost Chart are only the estimated District share of the total project costs and do not include the Corp's portion.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Army Corps of Engineers, City of San Jose and the District

COST SHARING FORMULA
It is estimated that the Corps will pay $40.2 million of the estimated total project cost ($137.6 million); and the District will pay approximately $97.4 million, of which approximately $15.7 million was spent for property acquisition in the Guadalupe Watershed. Approximately $1.6 million of the District's share is to be reimbursed by the City of San Jose. The District will pursue State Subventions funding for eligible local cost of $11.9 million.

REIMBURSEMENT SCHEDULE
The $1.6 million reimbursement from the City of San Jose for Willow Glen Way Bridge is scheduled for FY 2005. Possible State Subventions reimbursements are not currently scheduled.

Willow Street underpass at SPRR flooding.

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year 03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
261503	Guadalupe River Upper, SPRR_ Blossom Hill (R7-12)	City of San Jose	0	0	1,500	0	0	0	0	0	0	0	0	1,500

OPERATING BUDGET IMPACTS

Impacts to the Guadalupe Watershed Operations budget include increases in labor and equipment resources to ensure that routine stream maintenance practices are conducted in an efficient, consistent and environmentally sensitive manner. The cost estimate for routine maintenance work is $455,000 annually.

Berryessa Creek
Calaveras Boulevard
to Old Piedmont Road

Project Number:
261741, 261742

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts.
- Improve stream habitat values, and fisheries potential.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

- Coordinate with the Army Corps of Engineers (Corps) the development of a General Reevaluation Report and Environmental Impact Report/Environmental Impact Statement
- Corps will design and prepare plans and specifications for Berryessa Creek upstream of Calaveras Boulevard.
- District will coordinate with the Corps and be responsible for acquisition of lands, easements, rights of way, relocations, and disposals (LERRDs).

This effort is accounted for in the following job numbers.
261741 = Berryessa Creek, Calaveras to Old Piedmont Road
261742 = Berryessa Creek, Calaveras to Old Piedmont Road LERRDs

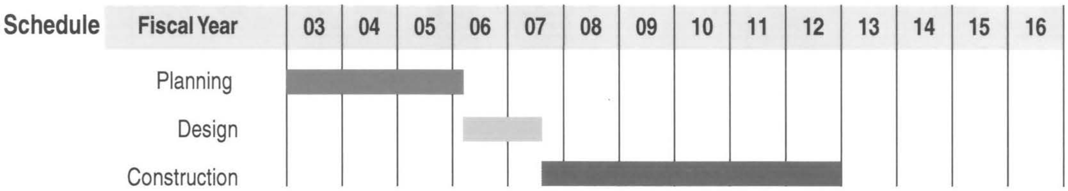
Berryessa Creek near flood stage at Piedmont Road in San Jose.

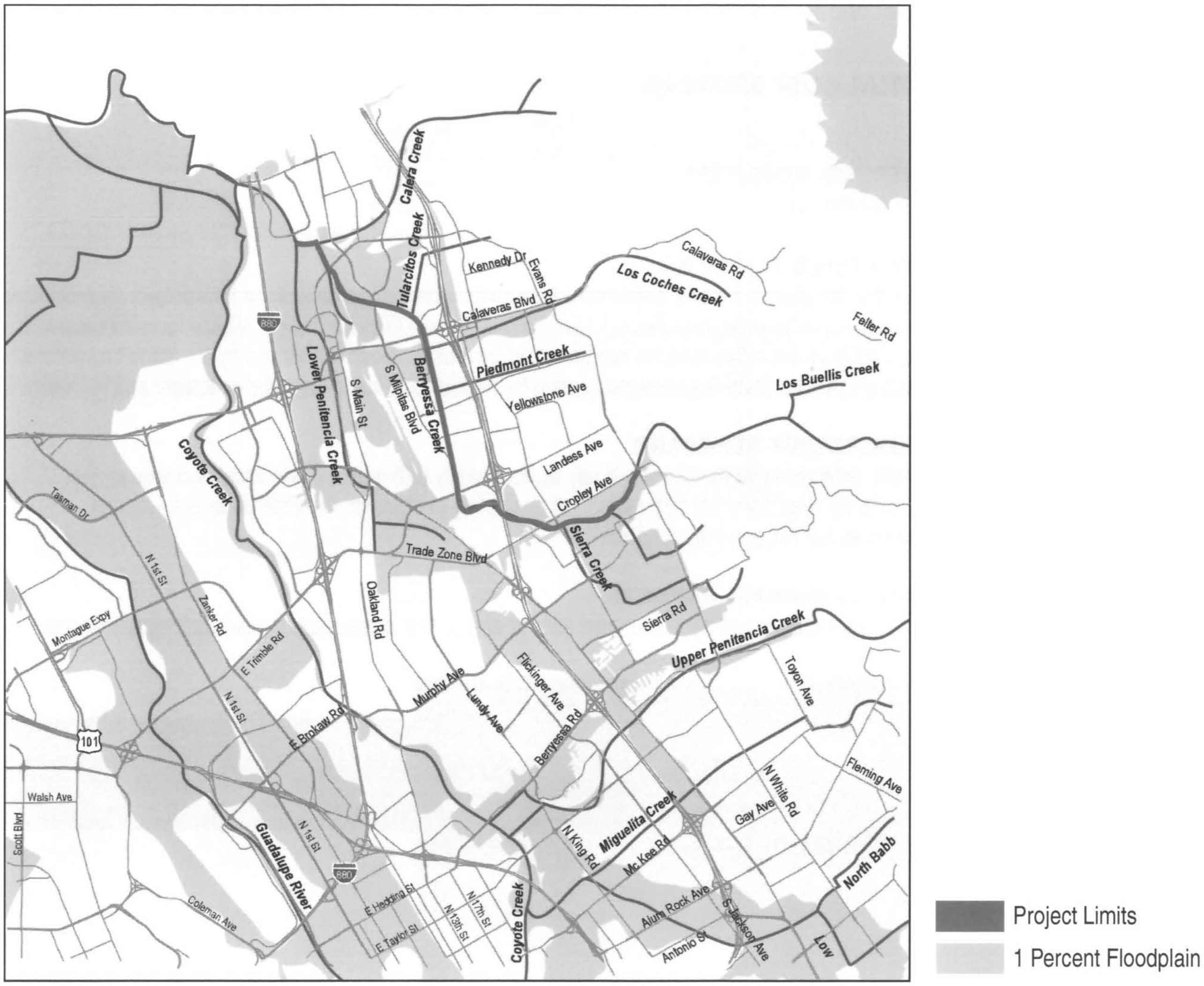
SCHEDULE

INITIATION AND COMPLETION DATES

March 2001 to June 2012

Project compeletion includes 3 years plant establishment. In-channel construction scheduled to be complete in October 2009.





COST

(inThousands $)

		Est. Actual*		Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
261741	Berryessa Creek, Calavaras-Old Piedmont (Corps	1,559	383	0	99	841	841	841	1,590	1,590	1,590	1,590	1,590	4,770	17,284
502803	Berryessa Creek, Calaveras-Old Piedmont (LERRD)	206	2,285	0	0	0	0	0	0	0	0	0	0	0	2,491
Total		1,765	2,668	0	99	841	841	841	1,590	1,590	1,590	1,590	1,590	4,770	19,776

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.
Dollars shown in Cost Chart are only the estimated District share of the total project costs and do not include the Corp's portion.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

Corps and the District

COST SHARING FORMULA

The Corps and the District is each responsible for approximately 50 percent of the total project cost including costs of the General Re-evaluation Report. Up to 70 percent of District costs are eligible for reimbursement under the California State Subventions program. This project has been authorized by the State Legislature. The District will pursue State Subventions funding for eligible local costs currently estimated at $14 million.

REIMBURSEMENT SCHEDULE

It is currently estimated that the Corps will pay approximately $20 million of the estimated total project cost ($40 million). Approximately $20 million will be paid by the District. Possible State Subventions reimbursements are not currently scheduled.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined prior to design and preparation of plans and specifications.

Berryessa Creek flooding at Old Piedmont Road in 1983.

Coyote Creek

Montague Expressway
to Highway 280

Project Number:
261743

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide flood protection to the surrounding area from the one-percent flood event on Coyote Creek.
- Mitigate for all project impacts to stream habitat values and fisheries.
- Identify stream habitat enhancement and/or restoration opportunities.
- Identify opportunities to improve water quality within the project limits.
- Identify opportunities to provide for public recreation and access.
- Minimize the need for future operations and maintenance activities and create a self-sustaining system within the project limits.
- Obtain community support.

BENEFITS

- Policy E-2, Article 2.2.2.1 - “Homes, schools, business and transportation networks are protected from flooding and erosion.”
- Policy E-3, Article 3.1.1.2 - “Mitigation enhancements or restorations are implemented when determined appropriate by the Board.”
- Policy E-3, Article 3.2 - “There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate.”

SCOPE OF WORK

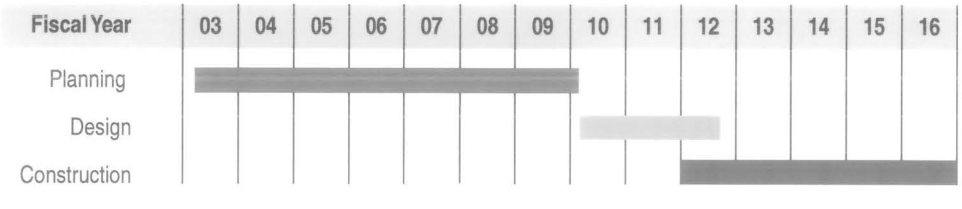
This project will develop a comprehensive plan that reduces the potential for flood damages, reduces erosion and sedimentation, addresses maintenance needs, and protects fish and wildlife habitat and the creek’s environmental resources as a whole. It is anticipated that a full EIR and Engineer’s Report will be prepared. Following completion of the planning study, design will commence, resulting in preparation of a construction document, based on the Board-approved preferred alternative. Construction will start on a portion of the project following completion of design. Additional funding will be required in order to complete the construction phase of this project.

SCHEDULE

INITIATION AND COMPLETION DATES

September 2002 to June 2016

Schedule



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproprated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
261001	Coyote Creek, Montague-280	328	1,402	1,550	4,189	817	721	775	989	1,811	0	4,157	4,157	12,471	33,367

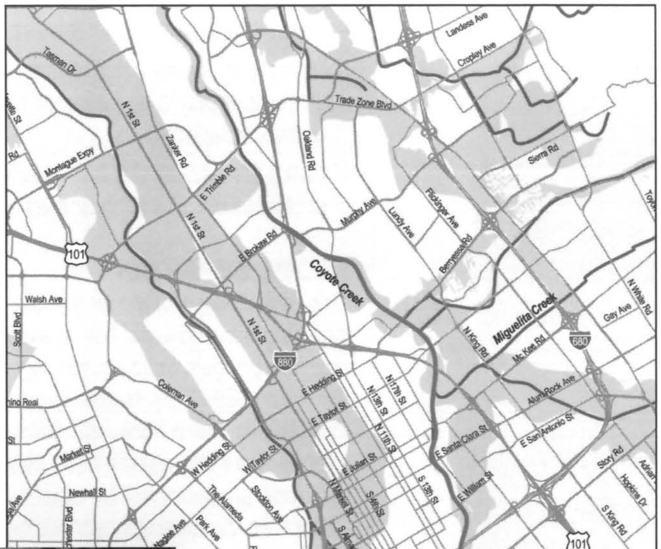
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None identified at this time.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



■ Project Limits

□ 1 Percent Floodplain

Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997.

Upper Llagas Creek

Buena Vista Road to
Wright Avenue

Project Number:
261751, 251752

Sponsoring Division:
Watershed Management

Project Manager:
Tim Yung

OVERVIEW

OBJECTIVES

Provide an increased level of flood protection with adequate freeboard between Buena Vista Road and Wright Avenue, consistent with the 1982 Engineer's Report.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.2 - "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing proection of natural resource benefits."
- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses, and transportaion networks are protected from flooding and erosion."

SCOPE OF WORK

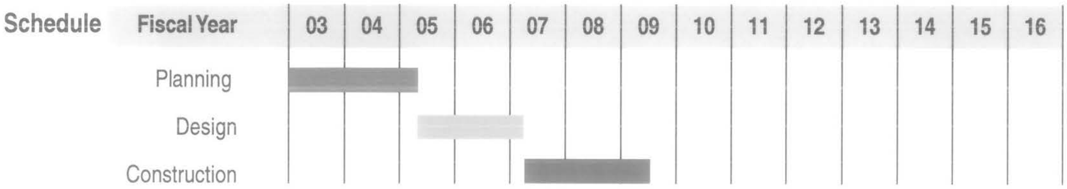
This project will provide for the design and construction of approximately 16.6 miles of channel, including 9 bridges and box culverts and the relocation of any utilities or other facilities, (farm crossing bridges, building, fencing, barns, etc.) required to complete the project. The environmental document (EIR/EIS), hydraulics, and hydrology will be updated to the current District standards. The plan for reach 8 through downtown Morgan Hill will be revised with input from the community to provide a more aesthetically pleasing and environmentally friendly project. The Corps, as the lead federal agency will be responsible for planning, design and construction of the channel. The District, as the local sponsor will be responsible for land rights acquisition, utility relocations, and design and construction of bridges and box culverts.

This effort is accounted for in the following job numbers:
261751 = Upper Llagas Creek, Reimbursable
261752 = Upper Llagas Creek, Nonreimbursable

SCHEDULE

INITIATION AND COMPLETION DATES

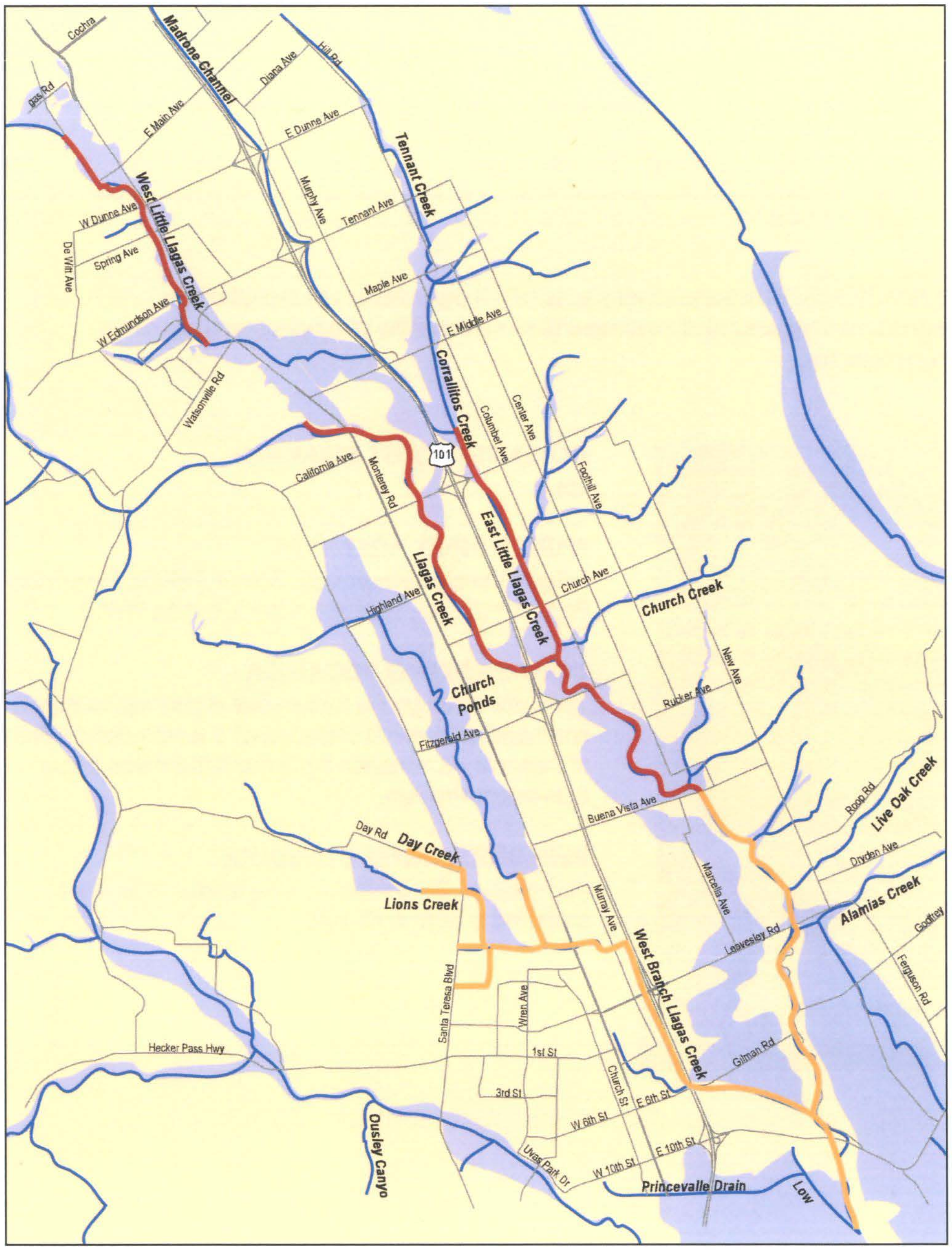
August 2000 to December 2008



🟥 Upper Llagas Creek

🟧 Lower Llagas Creek

🟪 1 Percent Floodplain



COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
261751	Upper Llagas Creek Reimbursale	1,374	8,324	0	0	0	1,334	1,495	1,854	2,748	2,200	2,200	8,700	0	30,228
261752	Upper Llagas Creek Nonreimbursable	700	97	321	443	0	580	633	0	0	0	0	0	0	2,764
Total		2,074	8,420	321	433	0	1,914	2,128	1,854	2,748	2,200	2,200	8,700	0	32,992

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances. Dollars shown in Cost Chart are only the estimated District share of the total project costs and do not include the Corp's portion.

Llagas Creek floods at Watsonville Road and the surrounding area.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

Natural Resource Conservation Service (NRCS), Army Corps of Engineers (Corps), State of California, and the District

COST SHARING FORMULA

The Corps is responsible for the costs of planning, construction and mitigation elements of the project. It is estimated the State of California will reimburse the District $10.5 million through its Subventions Program.

REIMBURSEMENT SCHEDULE

Approximately $10.5 million in State reimbursements are scheduled to begin in FY 2007.

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
261751	Upper Llagas Creek Reimbursable	State Subventions		0	0	0	0	1,750	1,750	1,750	1,750	1,750	1,750	0	10,500

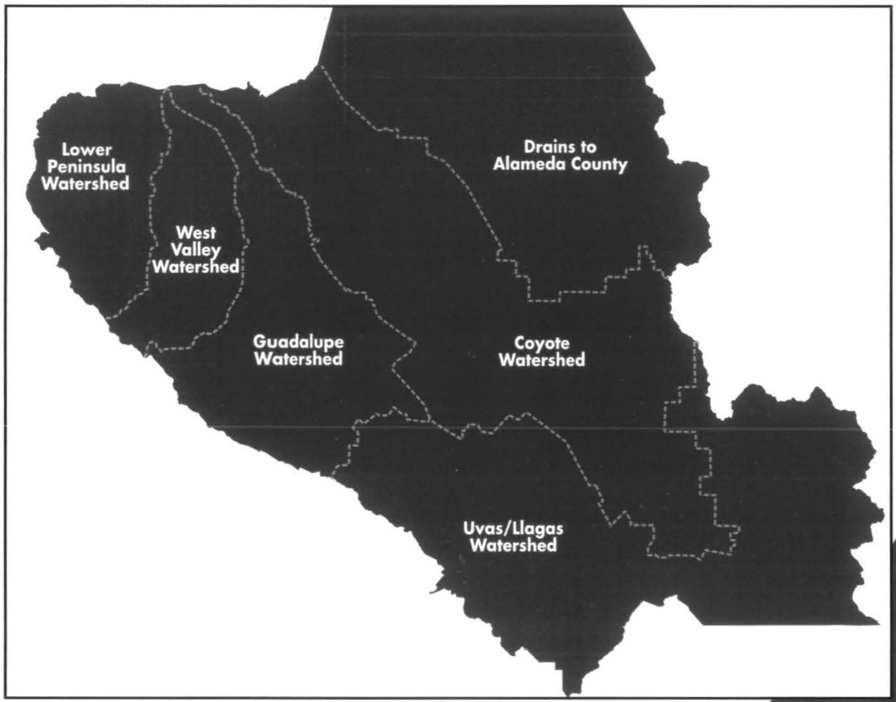
OPERATING BUDGET IMPACTS

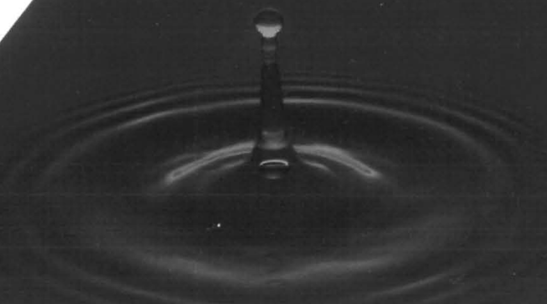
Operating budget impacts are anticipated and will be determined during the planning phase.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Watershed & Stream Stewardship Fund





Santa Clara Valley
Water District

Watershed/
Stream Stewardship

WATERSHED & STREAM STEWARDSHIP FUND

FUND OVERVIEW

The Watershed and Stream Stewardship Fund (Fund) was established in FY 2001 to account for a portion of the District's 1 percent ad valorem property tax revenue to finance the costs of countywide stream stewardship activities.

In past years, the Board of Directors had allocated this portion of the 1 percent ad valorem property tax to the Water Utility Enterprise. These funds paid for watershed-related water utility activities: creek maintenance, land development review, urban runoff program, and preservation of fisheries and natural habitat.

The above mentioned activities are also covered by the District's 15-year Flood Protection & Stream Stewardship Program (Program), the Board decided to combine the above mentioned activities with the Program. This action produces the double benefit of providing a more complete program and consolidating efforts for more efficient operation. The Watershed Stream Stewardship Fund was thus created and serves both water utility and flood management goals within a watershed context.

CAPITAL IMPROVEMENT PROGRAM

The District's Flood Protection and Stream Stewardship Program has designated the Watershed and Stream Stewardship Fund to soley or partially finance specific areas of the program; including areas such as mitigating environmental impacts caused by watershed maintencance activities, erosion protection repair, urban runoff pollution prevention, and open water habitat protection and restoration. Following is a summary of currently identified projects.

MAJOR PROJECTS - COMPLETED

None

MAJOR PROJECTS - CURRENT

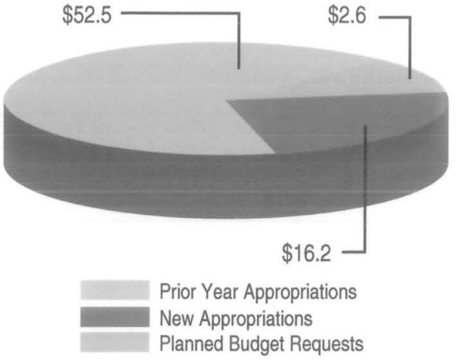
- SMP Mitigation Program
- Thompson Creek Stream Stabalization

MAJOR PROJECTS - FUTURE

- Regional Stormwater Treatment Facility
- FAHCE Mitigation Program
- San Jose Water Blowoff Extension into Coyote Creek
- Babb/Piedmont/Los Coaches Creeks Rehabilitation

Watershed & Stream Stewardship Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2016

Total: $71.4 million



FINANCIAL OVERVIEW

The estimated capital investments, from FY 2004 through the end of the Flood Protection and Stream Stewardship Program, to complete current and future capital projects, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests									Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
620418S	SMP Mitigation Program	7,889	2,062	5,348	8,347	8,457	15,498	264	1,612	5	0	0	0	0	49,482
621001	Alamitos Fish Ladder, Recreational Access	84	586	0	231	0	0	0	0	0	0	0	0	0	901
622101	Thompson Creek Stream Stabilization Project	0	0	167	2,107	0	0	0	0	0	0	0	0	0	2,274
62C133	San Jose Water Blowoff Extension	0	0	0	0	0	0	0	0	0	0	0	0	1,115	1,115
62C134	Babb/Piedmont/ Los Coches Creeks	0	0	0	0	0	0	0	0	0	0	0	0	3,935	3,935
62C137	Regional Stormwater Facility	0	0	0	0	1,891	1,861	0	0	0	0	0	0	0	3,752
62C144S	FAHCE Mitigation Program	0	0	0	0	2,315	2,315	3,130	2,910	0	0	0	0	0	10,490
	Total	7,974	2,647	5,515	10,685	12,663	19,494	3,394	4,522	5	0	0	0	5,050	71,949
	Total (with inflation)	7,974	2,647	5,515	10,685	13,837	21,940	3,935	5,400	6	0	0	0	7,416	79,355
	Capital Investment		2,647	16,200		52,534									71,381

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

No reimbursement for this fund.

FUNDING SOURCES

There are four categories of revenue available to the Watershed and Stream Stewardship Fund for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

Debt financing is not planned for this fund.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of operating revenue annually available for the Capital Improvement Program.

PARTNERSHIPS

Opportunities to partner with other agencies or organizations to cooperatively fund the capital improvement projects have not yet been identified.

CAPITAL RESERVE

The Watershed and Stream Stewardship Fund will have accumulated approximately $1.18 million in its capital reserve at the beginning of FY 2004.

Project Number:
620418, 621801, 621802
621841, 627501

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

Fulfill mitigation commitments that the District made in the EIR for the Stream Maintenance Program (SMP) and as required in regulatory permits for the SMP in the following categories:

- Restore Tidal Wetlands
- Create Freshwater Wetlands
- Preserve Stream and Watershed Lands

BENEFITS

- Policy E-3, Article 3.1.1 - "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board.
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."

SCOPE OF WORK

This project consists of planning, design, and construction of the following Stream Maintenance Mitigation Projects:

620418 – Pond A4 Tidal Wetlands Mitigation, restores 30 or more acres of tidal wetlands habitat.

621801 – Stream/Watershed Land Acquisition & Restoration, preserves approximately 1,000 acres of stream watershed lands.

621802 – Coyote 10A Wetland Conversion, creates 7 acres of freshwater wetlands.

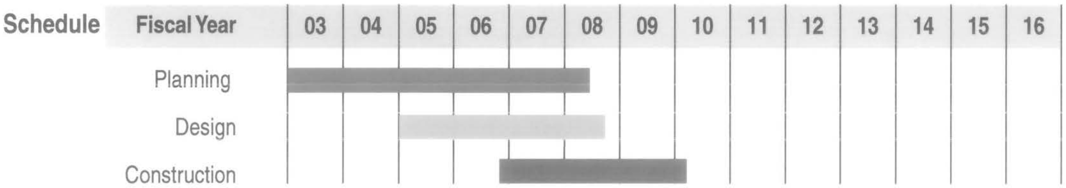
621841 – Lower Uvas Carnadero Property Acquisition and Mitigation, preserves approixmately 198 acres of stream watershed lands.

627501 – Pajaro Watershed Freshwater Wetland Maintenance Mitigation, creates 4 acres of freshwater wetlands.

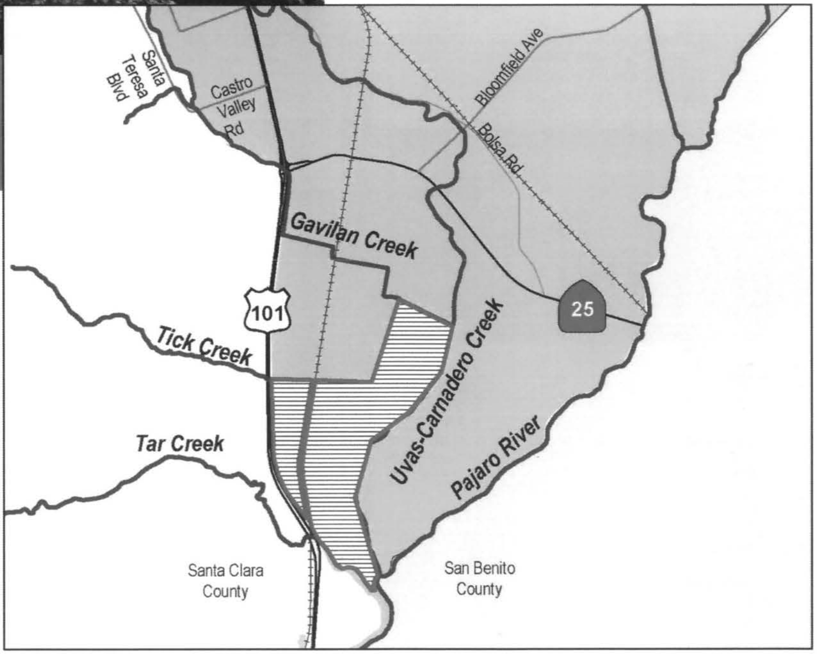
SCHEDULE

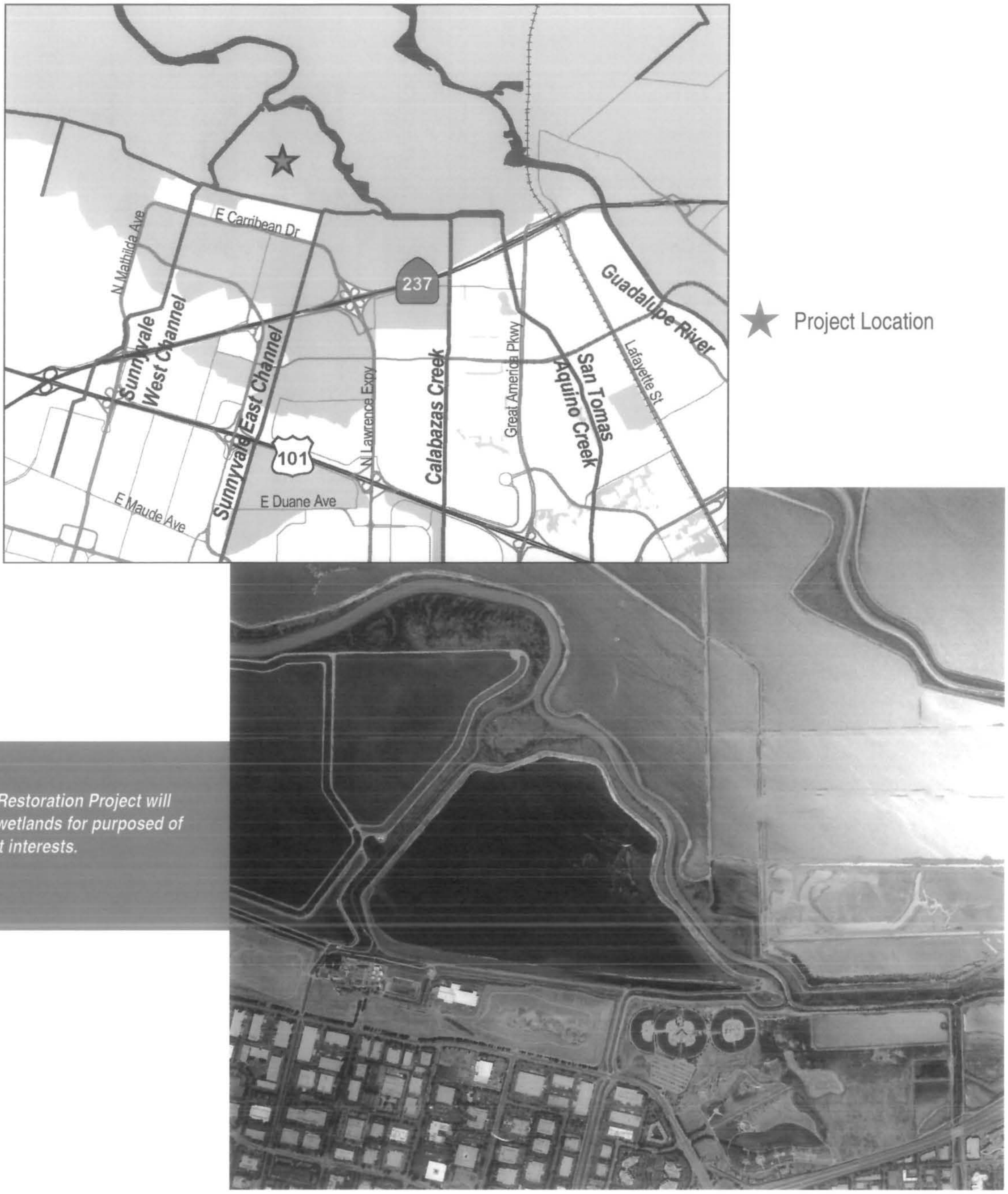
INITIATION AND COMPLETION DATES

August 2000 to August 2009



Lower Uvas–Camadero Property: view across fields towards the Pajaro River.





The Pond A4 Tidal Wetland Restoration Project will restore a salt pond to tidal wetlands for purposed of mitigation and other District interests.

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
620418	Pond 4A Tidal Wetlands Mitigation Site, Reimbursable	4,868	2,050	0	100	371	15,187	178	184	0	0	0	0	0	22,938
621801	Stream/ Watershed Land Acquire/Restore	0	0	3,669	3,839	423	300	0	0	0	0	0	0	0	8,231
621802	Coyote 10A Wetland Conversion	0	0	600	3,704	7,114	0	0	0	0	0	0	0	0	11,419
621841	L. Uvas-Carnadero Property Acquisition	2,711	(3)	475	147	0	0	0	0	0	0	0	0	0	3,329
627501	Pajaro Watershed Freshwater Wetland Maintenance Mitigation	310	15	605	556	549	11	86	1,428	5	0	0	0	0	3,565
Total		7,889	2,062	5,348	8,347	8,457	15,498	264	1,612	5	0	0	0	0	49,482

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

None.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning of each project.

Alamitos Fish Ladder

Recreational Access

Project Number:
621001

Sponsoring Division:
Watershed Management

Project Manager:
Belinda Allen

OVERVIEW

OBJECTIVES

- Design improvements for public access to view the Alamitos Fish Ladder;
- Identify and landscape areas adjacent to the fish ladder and Guadalupe River;
- Design an educational element describing the function of the Alamitos Fish Ladder and its relationship with the anadromous fish life cycle;
- Prepare plans and cost estimates for installation of a catwalk across the Guadalupe River.

BENEFITS

- Policy E-3, Article 3.1.1.1 - "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."
- Policy E-3, Article 3.2 - "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project consists of planning, design and modification of the existing fish ladder facility and areas immediately upstream and downstream of the site for public viewing. The aesthetics of the site and structures will be addressed. The site and adjacent areas will be landscaped. Educational elements will be incorporated at the facility. Interested parties, which will be contacted during the development of the plan, include the Community Relation Unit, Maintenance, Operations, Environmental Resources Management, and the City of San Jose Parks Department.

SCHEDULE

INITIATION AND COMPLETION DATES

This project is not currently scheduled.

COST
(inThousands $)

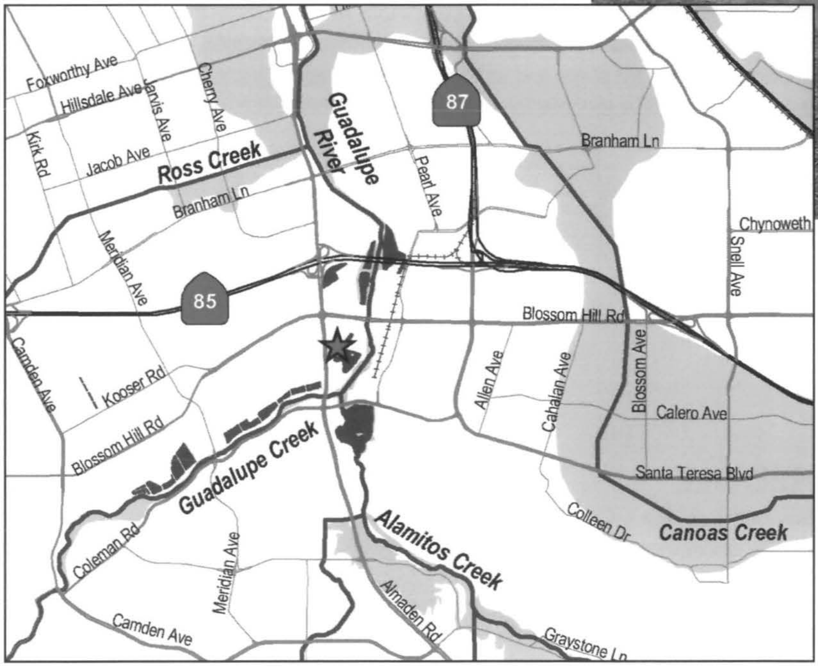
Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
621001	Alamitos Fish Ladder, Recreational Access	84	586	0	231	0	0	0	0	0	0	0	0	0	901

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
Board direction during budget presentation was to cancel this project. This will be accomplished by budget adjustment in Quarter 1.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

Current Fish Ladder and landscape conditions.



★ Project Location

▨ 1 Percent Floodplain

Thompson Creek

Stream Stabilization Project

Project Number:
622101

Sponsoring Division:
Capital Program Services

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Restore the low-flow channel to an equilibrium condition.
- Protect the riparian habitat adjacent to the low-flow channel.
- Identify sediment sources and causes
- Repair the creek channel to ensure 100-year flood flows are safely conveyed.
- Address potential impacts from erosion and channel degradation to the District's Snell Pipeline.
- Provide for habitat protection and, where appropriate, habitat enhancements.

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.1.1.1 - "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."
- Policy EL-7, - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project will be undertaken jointly with the Army Corps of Engineers under the Corps' Aquatic Ecosystem Restoration Program (Section 206 Program). The District will coordinate with the Corps the preparation of a Detailed Project Plan (DPR) to address channel degradation and habitat restoration. Following completion of the DPR the Corps will prepare plans and specifications and advertise for construction. District responsibilities will be to provide for LERRDs (acquisition of lands, easements, rights-of-way, relocations, and disposal sites).

Erosion leading to downstream sedimentation.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to December 2006

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning		▨												
Design			▨											
Construction				▨	▨									

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
622101	Thompson Creek Stream Stabilization Project	0	0	167	2,107	0	0	0	0	0	0	0	0	0	2,274

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.
The amount shown in the Cost Chart is estimated costs for District share of the total project costs and does not include the COE's share.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Army Corps of Engineers - San Francisco District

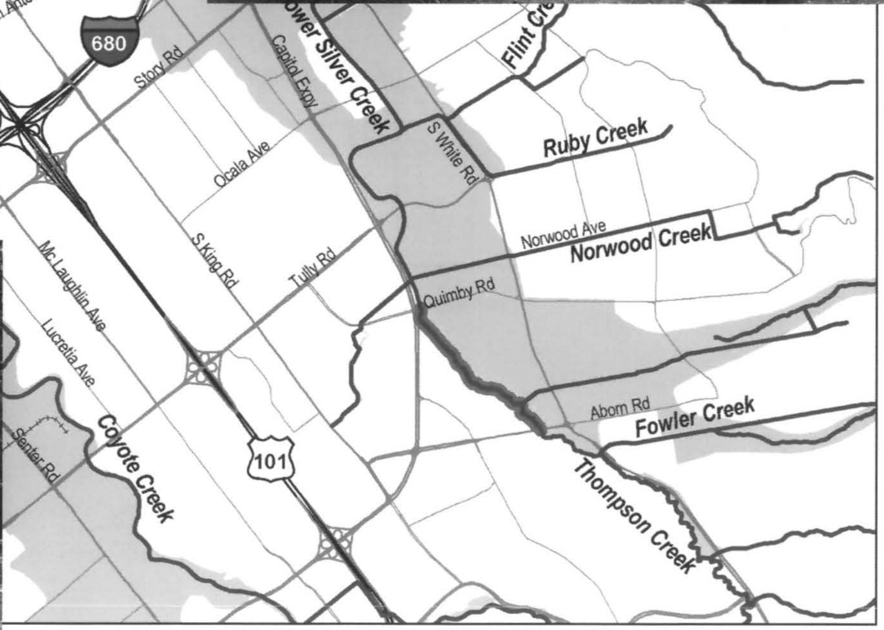
COST SHARING FORMULA
Under the Corps' Section 206 Program they will cost-share 50 to 65 percent of the total project cost. The Section 206 Program has a Federal participation limit of $5 million for each project.

REIMBURSEMENT SCHEDULE
The schedule for reimbursements will be determined at the time the Project Cooperative Agreement is executed with the Corps.

OPERATING BUDGET IMPACTS
Future operating budget impacts of the project will be determined during the planning phase.

Undercutting of mature riparian habitat.

Severe bank erosion.



▇ Project Limits

▒ 1 Percent Floodplain

San Jose Water Blowoff Extension to Coyote Creek

Project Number:
62C133

Sponsoring Division:
Watershed Management

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Minimize impacts to Coyote Creek mitigation area and overflow channel area.
- Reduce sediment loading to creek, thereby being consistent with the District's SWPP requirements.
- Repair/restore eroded portions of the overflow channel.
- Prevent the overflow channel area from becoming a wetland area.

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."

SCOPE OF WORK

- Design and prepare plans and specifications to construct an extension for the San Jose Municipal Water Company blowoff pipeline into Coyote Creek.
- Prepare Plans and Specificaitons to include work to repair existing damages to channel and overflow area.
- Advertise the project for construction and provide construction management of the project.

SCHEDULE

INITIATION AND COMPLETION DATES

This project is not currently scheduled

COST (inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests									Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
62C133	San Jose Water Blowoff Extension	0	0	0	0	0	0	0	0	0	0	0	0	1,115	1,115

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

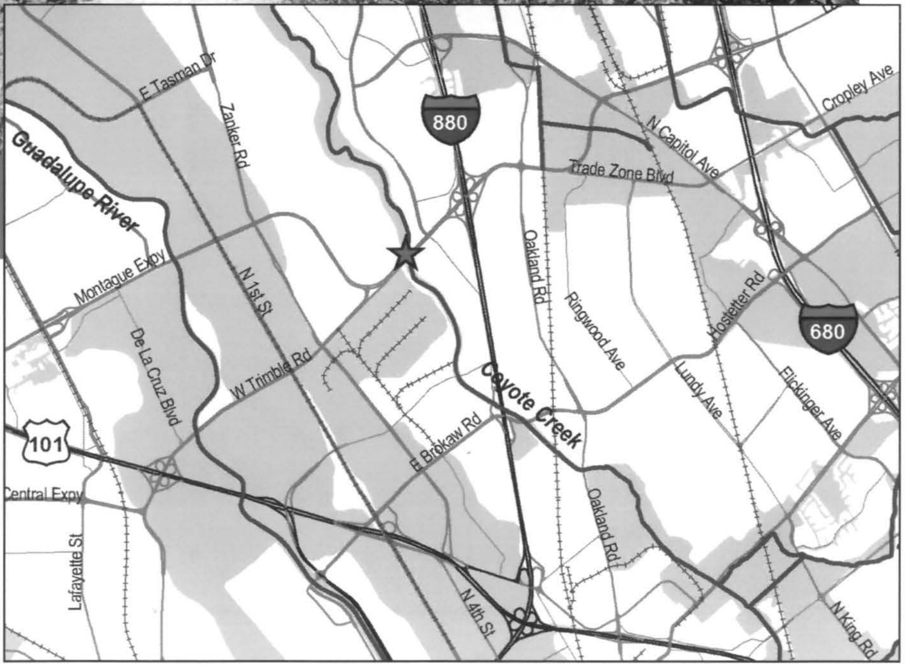
POTENTIAL COST SHARING

None.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

Bank erosion caused by blowoff along Lower Coyote Creek.



★ Project Location

▨ 1 Percent Floodplain

Babb/Piedmont/ Los Coches Creeks

Channel Rehabilitation

Project Number:
62C134

Sponsoring Division:
Watershed Management

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Repair sections of side slopes of the channels that have worn away per their original design.
- Prevent further erosion of channel bottom by replacing the bottom lining that has worn through.
- Provide unhindered/unhampered flow in the channels during storm events.

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."

SCOPE OF WORK

Design and prepare plans and specifications to repair the channel lining (or rehabilitate the channel). Construction activities will include replacing side slope and bottom linings. Obtain permits and CEQA clearance as necessary to contruct the project.

SCHEDULE

INITIATION AND COMPLETION DATES

This project is not currently scheduled

Spalling concrete lining along North and South Bab Creeks.

COST (inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
62C134	Babb/Piedmont/ Los Coches Creeks	0	0	0	0	0	0	0	0	0	0	0	0	3,935	3,935

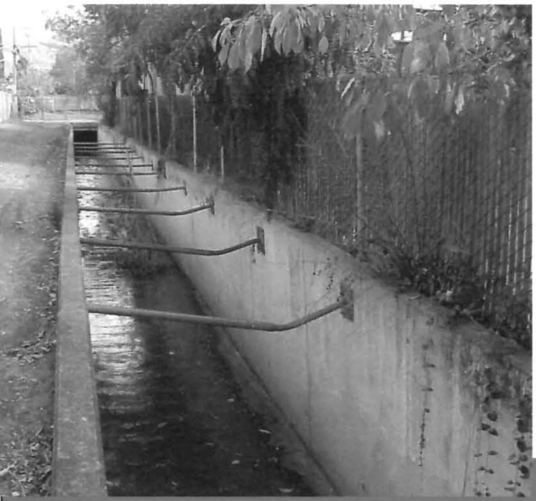
* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

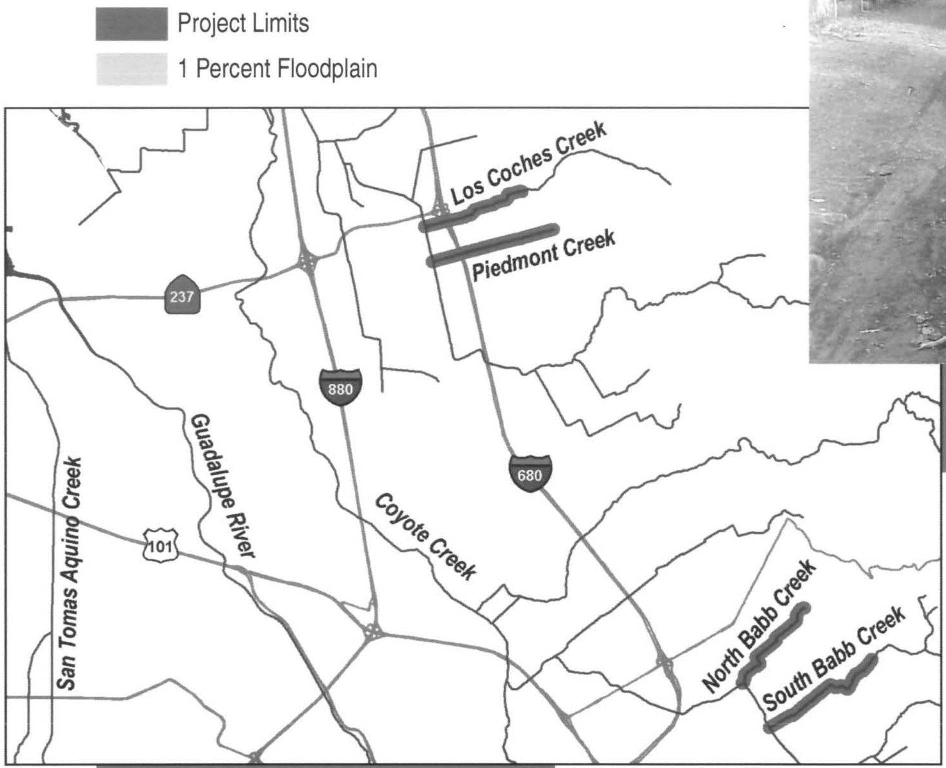
None.

OPERATING BUDGET IMPACTS

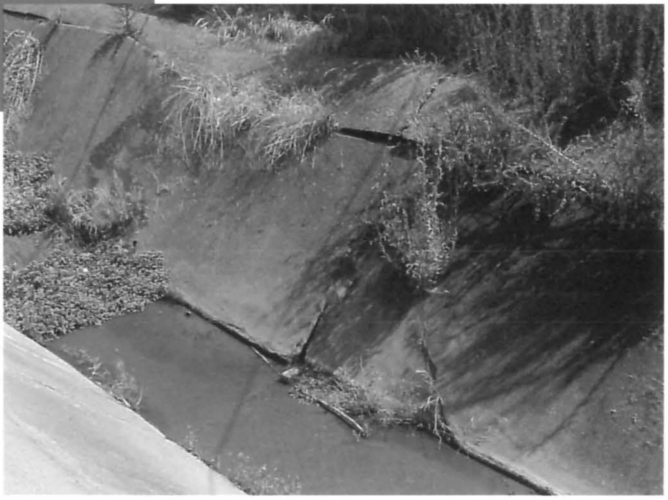
No operating impacts are anticipated from the construction of this project.



Failing section of U-Frame along Piedmont Creek.



Failing section of concrete lining along Los Coches Creek.



Regional Stormwater Facility

Project Number:
62C137

Sponsoring Division:
Watershed Management

Project Manager:
Dipankar Sen

OVERVIEW

OBJECTIVES

- Provide facilities in one sub-watershed to improve the ability to handle peak run-off and volumes associated with hydromodification (increase in stormwater flows as a result of urbanization), thereby reducing erosion and downstream sediment transport in the sub-watershed.
- Integrate stormwater pollutant removal in those facilities, thereby improving water quality before it enters the groundwater table or streams and creeks in a sub-watershed. Facilities include in-stream restoration (low flow channel stabilization, regional detention, bank stabilization).

BENEFITS

- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses and transportation networks are protected from flooding and erosion."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy EL-7, Article 7.9 "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked. Further, he/she shall not fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

Undertake a Planning Study (with appropriate CEQA document), and prepare plans, specifications and construction estimates to construct regional stormwater treatment facilities for hydromodification and pollutant removal in the first sub-watershed affected by increase in stormwater flows from urbanization in the North County.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2005 to June 2007
(Planning and design only for first sub-watershed)

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Planning				▨										
Design					▨									
Construction														

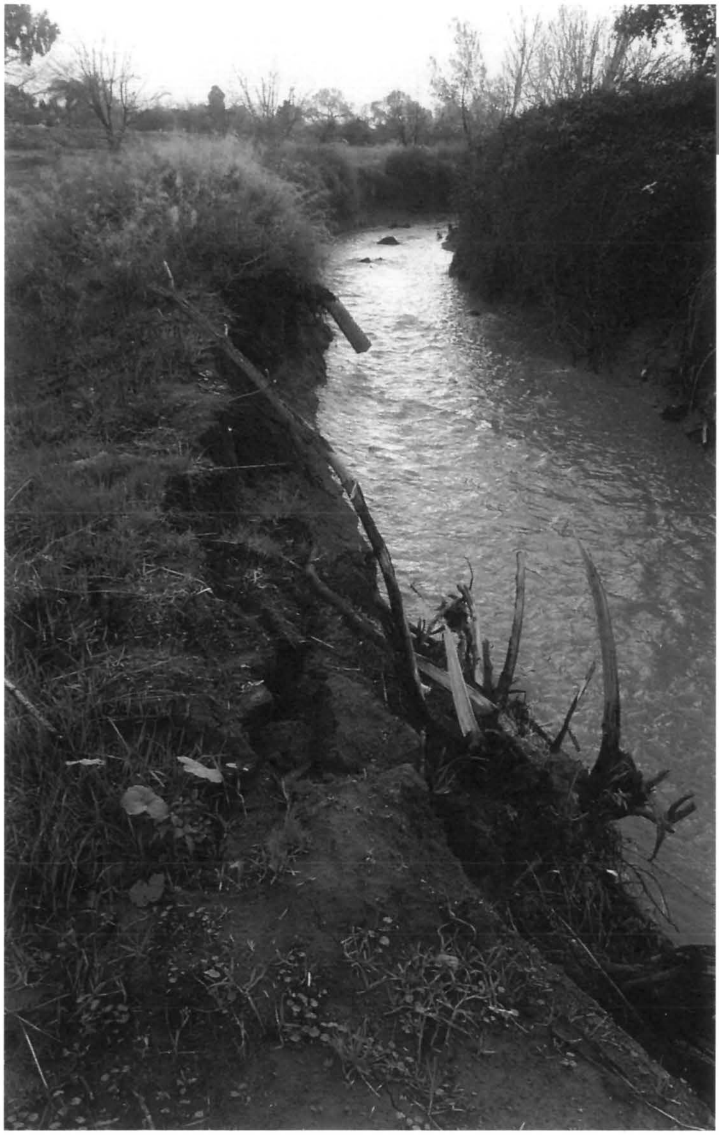
COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appproriated		Planned Budget Requests									Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14-16**	
62C137	Regional Stormwater Facility	0	0	0	0	1,891	1,861	0	0	0	0	0	0	0	3,752

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

OPERATING BUDGET IMPACTS

Impacts to the operating budget are anticipated and will be developed during the design phase of this project.



Thompson Creek erosion at Pettigrew Drive caused by cumulative impacts of urbanization since 1960; an example of hydromodification.

Erosion at Creek Estates Road along Yerba Buena Creek (tributary of Thompson)

Erosion along Villa Vista Road along Yerba Buena Creek.

FAHCE
Mitigation Program

Project Number:
62C144, 62C145
62C146

Sponsoring Division:
Capital Program Services

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Provide for a fully-functioning fish passage at the armored channel/drop structure/flow bypass.
- Reduce maintenance requirements and provide ability to safely and effectively maintain fish passage improvements.
- Reduce channel downcutting and bank scour.

BENEFITS

Policy E-3, Article 3.1.1 - "Healthly creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."

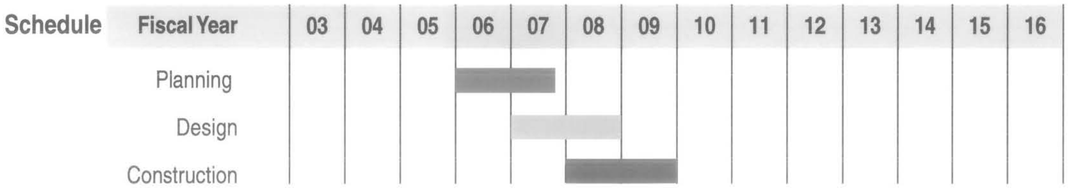
SCOPE OF WORK

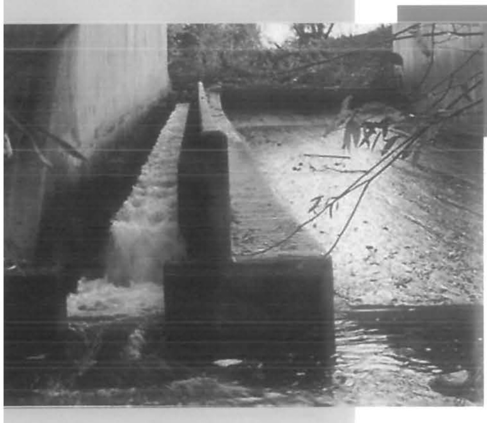
- Complete planning work including feasibility study; alternatives analysis report; an Engineer's Report; and CEQA Clearance.
- Secure Regulatory Agency Approvals/ Permits from: U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service; National Marine Fisheries Service; Regional Water Quality Control Board; CA Dept. of Fish and Game; City of Mountain View; Santa Clara County Roads; Santa Clara Valley Transportation Agency; CalTrans.
- Complete design, prepare construction plans and specifications, construct the project and conduct project close-out.
- Complete O&M manual.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2005 to June 2009





Stevens Creek Fish Ladder at Fremont Avenue.

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests									Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	14-16	
62C144	Stevens Creek, Evelyn Ave. Fish Ladder Rehabilitation	0	0	0	0	940	760	1,120	0	0	0	0	0	0	2,820
62C145	Stevens Creek, Moffett Ave. Fish Ladder Rehabilitation	0	0	0	0	735	735	1,370	0	0	0	0	0	0	2,840
62C146	Stevens Creek, Fremont Ave. Fish Ladder Rehabilitation	0	0	0	0	640	640	640	2,910	0	0	0	0	0	4,830
Total		0	0	0	0	2,315	2,135	3,130	2,910	0	0	0	0	0	10,490

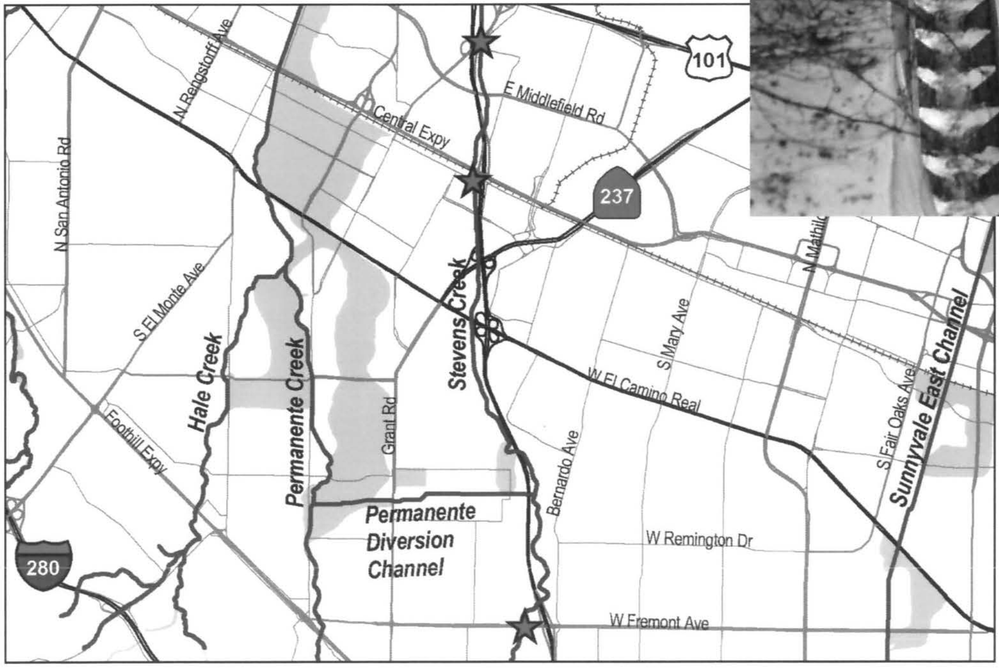
* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING
There may be opportunities to secure grant monies from regulatory agencies.

OPERATING BUDGET IMPACTS
There will be operating budget impacts. This information will be developed during the design, and will be documented in the project O&M manual.

★ Project Location

▨ 1 Percent Floodplain

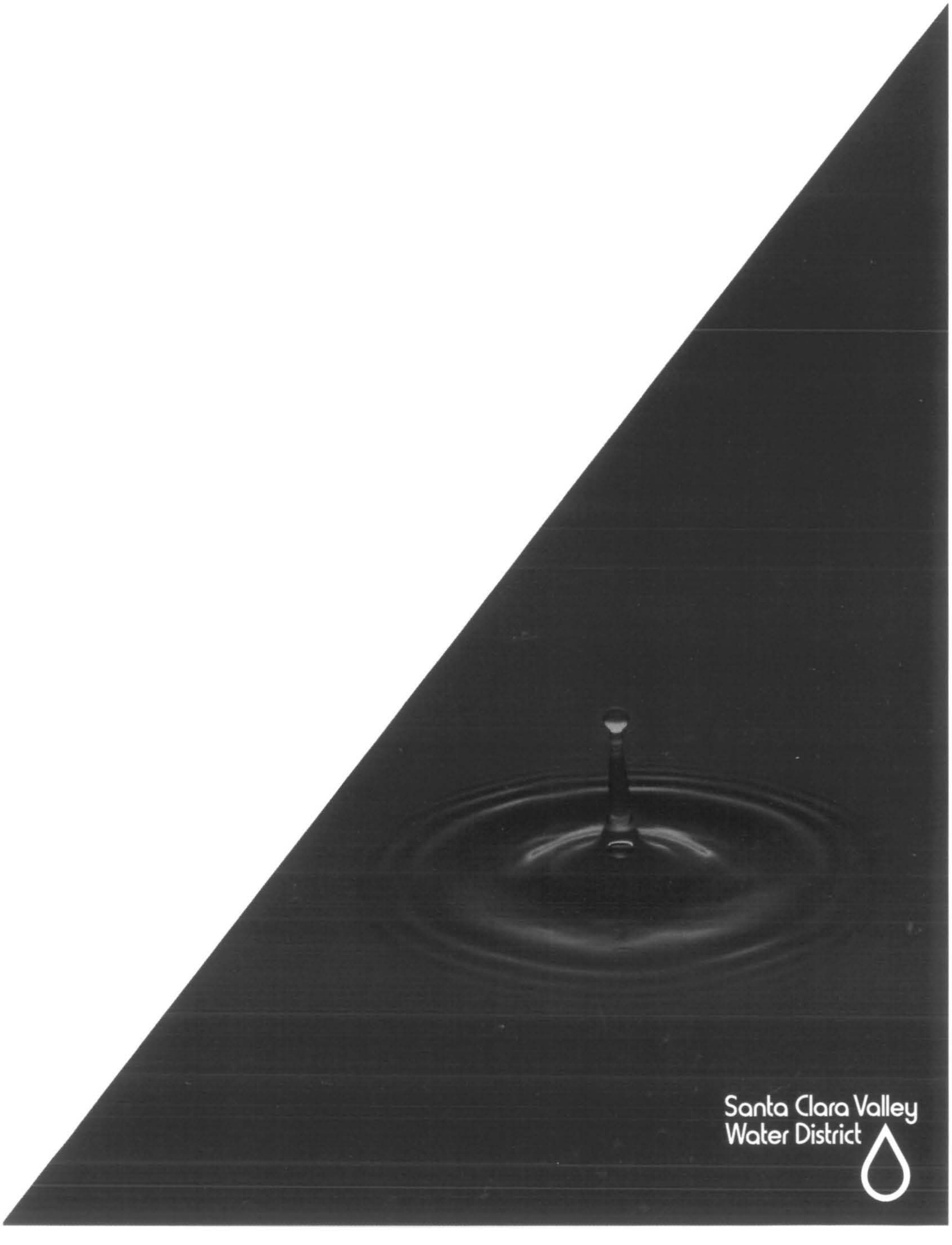


Stevens Creek Fish Ladder at Moffett Builevard.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Administrative Services



Santa Clara Valley
Water District

ADMINISTRATIVE SERVICES PROGRAM

PROGRAM OVERVIEW

The District's Administrative Services Program facilitates internal management and organizational processes and provide support services to the District's core businesses, including operations and capital improvement programs in the areas of financial management, human resources management, health and safety, equal employment opportunity, information technology and systems, procurement and inventory control, facilities management, contract administration, internal communications, equipment and materials management, strategic planning, performance management, internal auditing, policy and procedures coordination, and Board agenda planning and processes.

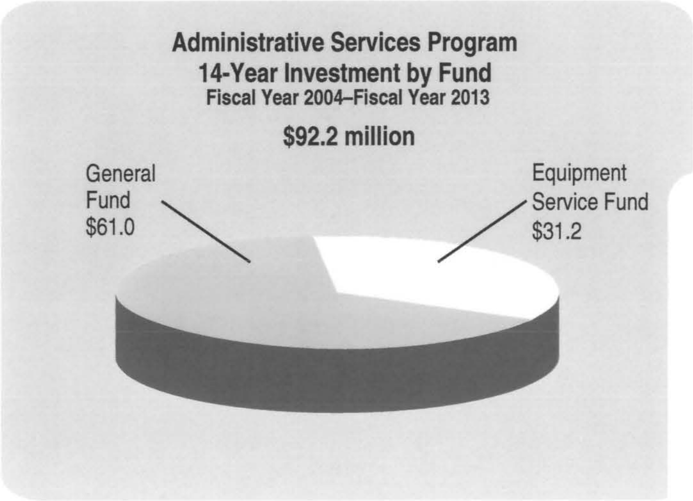
CAPITAL IMPROVEMENT PROGRAM

In past years, the Administrative Services' capital improvement program was focused on providing a safe and productive work environment for District employees. This focus will continue and expand to address the anticipated future growth of the District, a facility master planning effort started in FY 2002. The master plan will serve as the blue print for identifying new capital projects and developing funding alternatives for the new projects. Additionally, a new initiative started in FY 2002 that required significant capital investment-implementation of the Information Systems Master Plan. This initiative will provide the District easy and timely access to data and management information, which will help critical decision-making and facilitates communication.

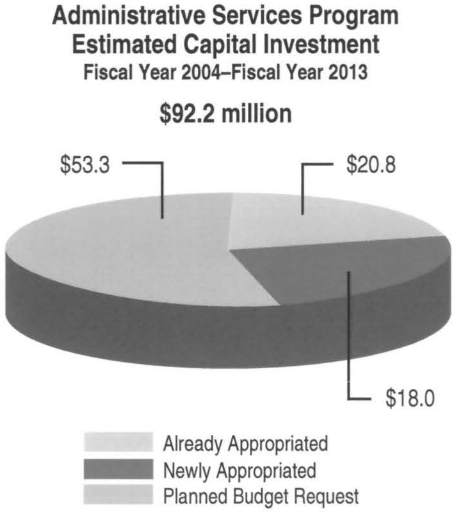
FINANCIAL OVERVIEW

There are three funds that collectively finance all activities of the Administrative Services Program, the District General Fund, Equipment Service Fund, and Risk Insurance Service Fund. Each fund was established to account for specific operations and capital improvement programs. The estimated capital investments to complete current and future capital projects for each fund are shown in the following pie-chart. (Note-there are no capital projects in the Risk Insurance Service Fund.)

As shown in the following pie chart, the estimated capital investments come from prior year appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.



Administrative Services Program
14-Year Investment by Fund
Fiscal Year 2004–Fiscal Year 2013
$92.2 million



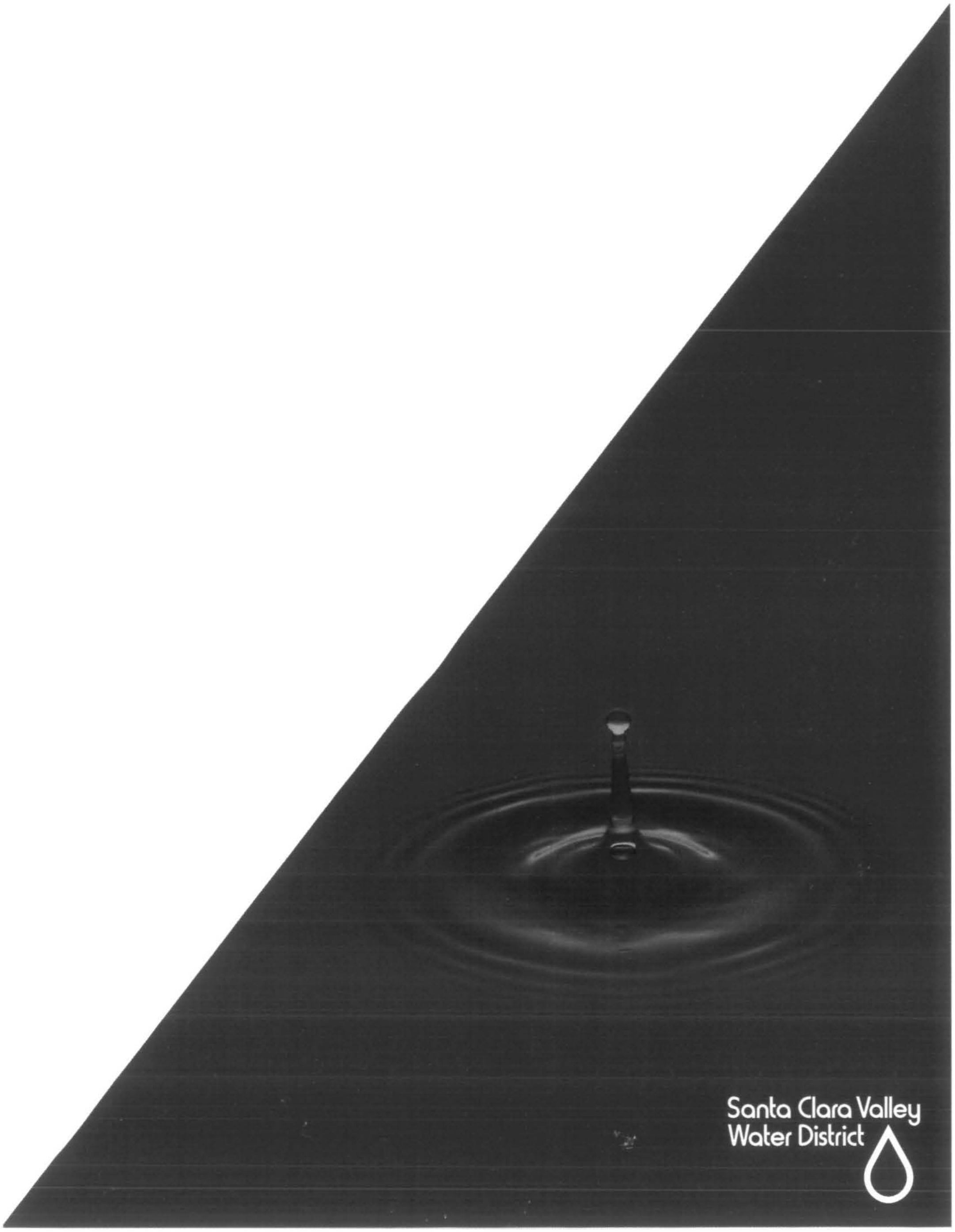
Administrative Services Program
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013
$92.2 million

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

General Fund

General Fund



Santa Clara Valley
Water District

DISTRICT GENERAL FUND

FUND OVERVIEW

The General Fund is the District's primary operating fund. It accounts for all revenues and expenditures not accounted for in other funds.

The General Fund receives approximately 6 percent of the District's property tax revenue, an average of $3 million a year, as its operating revenue. The General Fund's expenditures are for programs and projects that facilitate internal management and organizational processes and provide support services to the District's core businesses. The General Fund's expenditures in excess of available revenues and designated reserves are charged back to all other District funds as an overhead cost. This overhead cost is applied to all operations, operating projects, and capital projects of other funds as a percentage of the District labor performed for each fund.

CAPITAL IMPROVEMENT PROGRAM

The General Fund's capital improvement program focuses on two outcomes: 1. providing a safe and productive work environment for District employees, and 2. implementation of the Information Systems Master Plan to facilitate data and information management.

MAJOR PROJECTS - COMPLETED

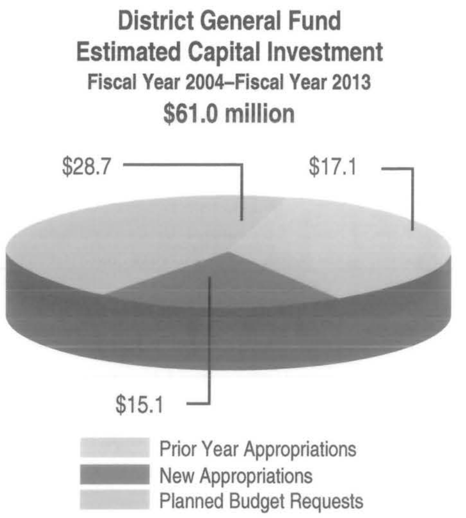
- Headquarters Consolidation Project (Building and site improvement)

MAJOR PROJECTS - CURRENT

- Headquarters Consolidation Project (Mitigation for Environmental Impact)
- Building Modification - Crest Building
- Almaden and Winfield Campus
- Almaden Campus Energy
- Information Systems Master Plan

MAJOR PROJECTS - FUTURE

None identified at this time



FINANCIAL OVERVIEW

The estimated capital investments to finance the current and future capital projects within the District's General Fund come from prior year appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005, and is shown in the following pie chart.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Appropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
602015	Headquarters Consolidation	25,832	360	0	0	0	0	0	0	0	0	0	0	26,192
602016	Small Capital Projects, Facilities	4,311	580	1,809	2,075	0	0	0	0	0	0	0	0	8,775
602020	Building Modifications, Crest	443	524	164	0	0	0	0	0	0	0	0	0	1,131
602023	Almaden Winfield Campus	1,049	6,806	253	212	0	0	0	0	0	0	0	0	8,320
602025S	Almaden Campus Energy	1,509	3,091	0	0	0	0	0	0	0	0	0	0	4,600
602751S	Information Systems Master Plan	5,199	5,769	1,231	1,162	0	0	0	0	0	0	0	0	13,361
600201S	Capital Support Program	0	0	3,636	3,977	3,800	3,800	3,300	3,300	3,300	3,300	3,300	3,300	35,012
602027	Administration Building HVAC	0	0	600	0	0	0	0	0	0	0	0	0	600
	Total	38,343	17,131	7,693	7,425	3,800	3,800	3,300	3,300	3,300	3,300	3,300	0	94,692
	Total (with inflation)	38,343	17,131	7,693	7,425	4,152	4,277	3,826	3,941	4,059	4,180	4,306	0	99,332
	15-Yr Investment		17,131	15,118		28,740								60,989

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
602025S	Alamaden Campus Energy	0	1,819	0	0	0	0	0	0	0	0	0	1,819

FUNDING SOURCES

There are four categories of revenue sources available to the District General Fund for funding current and future capital projects. These sources include debt financing, available annual revenue, partnerships, and capital reserve.

DEBT FINANCING

There is no plan at this time.

PARTNERSHIPS

See Almaden Campus Energy project for details.

AVAILABLE ANNUAL REVENUE

Available annual revenue is the portion of annual operating revenue available for the capital improvement program.

CAPITAL RESERVE

The General Fund will have accumulated approximately $3.68 million in its capital reserve at the beginning of FY 2004.

Project Number:
600201, 600626, 600627

Sponsoring Division:
Capital Program Services

Project Manager:
Martin Gamez

OVERVIEW

OBJECTIVES

- Capital Program Service Division will consistently deliver high-quality innovative projects that meet client divisions' expectations using best-in-class management and technical skills.
- Capital Program Service Division will have high-performing staff, fully trained to meet the client divisions' project demands.

BENEFITS

- Board Policy No. EL-3 - "With respect to the treatment of staff and volunteers, the CEO may not cause or allow conditions which are unfair, undignified, disorganized, or unclear."
- Board Policy No. EL-5, Article 5.10 - "...he/she shall not spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

This project provides funding for:

- Capital Program Services Division to perform supervision and management duties. Examples are communication, performance evaluation, resource planning, training, core competency development, budget preparation, strategic planning, business planning, etc.
- The Capital Program Services Division to continually implement and improve its Quality Management System according to ISO 9001 framework.

This work is accomplished in the following jobs:
600201 Basic Engineering
600626 Capital Program Management & Support
600627 Quality Management, Capital

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2016
(This scope does not apply to traditional design and construction phases.)

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Design											
Construction											

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
600201	Basic Engineering	0	0	831	784	800	800	800	800	800	800	800	800	8,016
600626	Capital Program Management & Support	0	0	2,291	2,598	2,450	2,450	1,950	1,950	1,950	1,950	1,950	1,950	21,489
600627	Quality Management, Capital	0	0	513	594	550	550	550	550	550	550	550	550	5,508
Total		0	0	3,636	3,977	3,800	3,800	3,300	3,300	3,300	3,300	3,300	3,300	35,012

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
None

The Capital Program Services Division is committed to providing best-in-class management and technical services.

BSI REGISTERED

CAPITAL PROGRAM SERVICES DIVISION
ISO 9001:2000 REGISTERED
OCTOBER 14th, 2002
CERTIFICATE FS70278

The Capital Program Services Division became ISO 9000 certified on October 14, 2002 affirming it's commitment to providing high-quality services.

Headquarters Consolidation

Project Number:
602015

Sponsoring Division:
Technical Services

Project Manager:
Patric Stanton

OVERVIEW

OBJECTIVES

- Provide a safe and productive work environment for District employees.

BENEFITS

- Consolidated campus for most district employees, improved communications, reduced rent and reduced telephone connection charges
- Wildlife habitat restored and enhanced
- A canopy of trees at maturity
- Selected areas stabilized and planted with riparian species native to the Santa Clara Valley
- An aesthetic arboreal visual effect created along the eastern boundary of district property

SCOPE OF WORK

- Planning, design and construction of headquarters building and parking lot (completed)
- Planning, design and construction of a revegetation project to mitigate the environmental impacts of the project.

SCHEDULE

INITIATION AND COMPLETION DATES

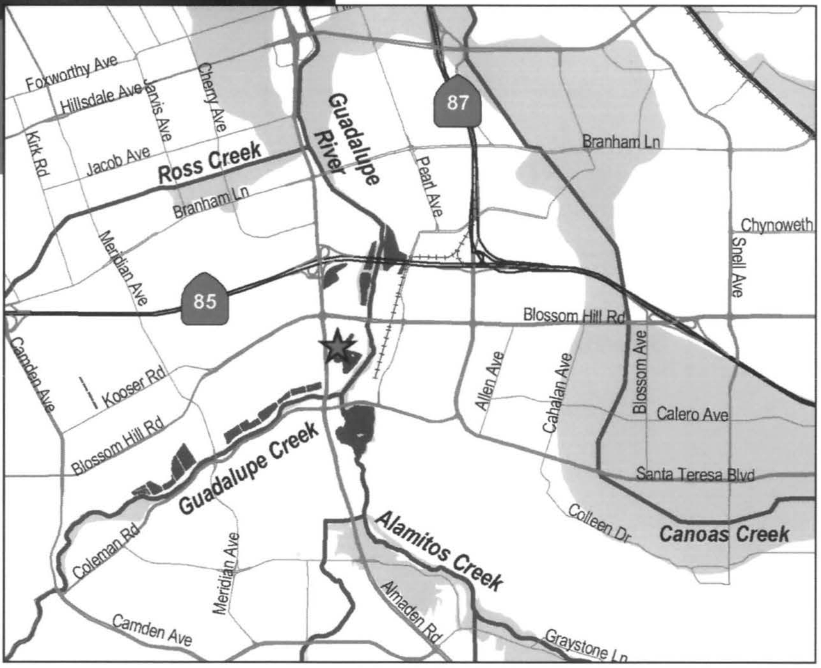
September 1988 to April 2005

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	▨	▨	▨								

With construction of the Headquarters Building complete, the landscape is still maturing.

On the shores of the Alamitos Pond. This is the view from the rear entrance to the Headquarters Building.



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
602015	Headquarters Consolidation	25,832	360	0	0	0	0	0	0	0	0	0	0	26,192

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

Small Capital Projects
Facilities

Project Number:
602016

Sponsoring Division:
Technical Services

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Maintain all District facility assets in good repair for all facilities for the health and safety of staff and visitors.

BENEFITS

Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

The project will provide funds for small-scale capital improvements for all District facilities that are not covered in the Almaden Winfield Campus project. The improvements will be managed by the Facilities Management Unit.

SCHEDULE

INITIATION AND COMPLETION DATES

September 1998 to June 2013
Improvements will be managed on an as-needed basis throughout the year.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	■	■	■	■	■	■	■	■	■	■	■

The District's newest facility located at 160 Great Oaks Blvd. This leased building houses four units and ERP Lab previously located in the Almaden Campus.

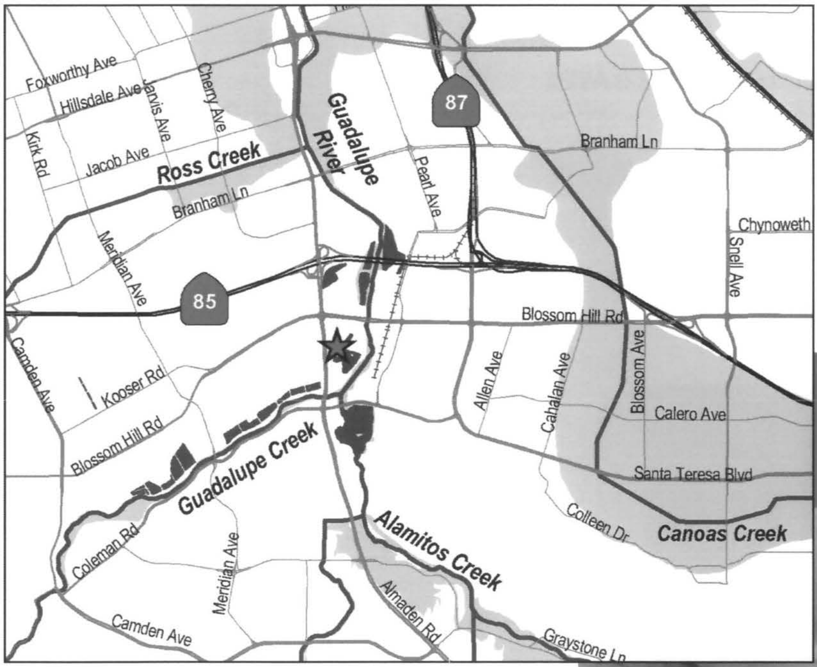
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
602016	Small Capital Projects, Facilities	4,311	580	1,809	2,075	0	0	0	0	0	0	0	0	8,775

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
This project is to be replenished annually to be kept at a $2 million level.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
None.



★ Project Location

▨ 1 Percent Floodplain

Recent relocation of high density shelf system for the District's Library at the Great Oaks Building. Included in this relocation is the five section expansion for future growth.

Building Modifications–Crest

Project Number:
602020

Sponsoring Division:
Business Resources

Project Manager:
Debra Bancroft

OVERVIEW

OBJECTIVES

- Provide funds for necessary tenant improvements to address the planned use of the facility

BENEFITS

- Policy GP-7, Article 7.8 - "A balance between work and family is essential to the quality of our lives, and we will promote a family-friendly work environment."

SCOPE OF WORK

Planning, design and construction to modify the Crest Building for its planned use.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2002 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning	■										
Design											
Construction		■									

Plans for a daycare facility are in the works. Some building modifications maybe necessary to accommodate this facility.

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproprlated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
602020	Building Modifications–Crest	443	524	164	0	0	0	0	0	0	0	0	0	1,131

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

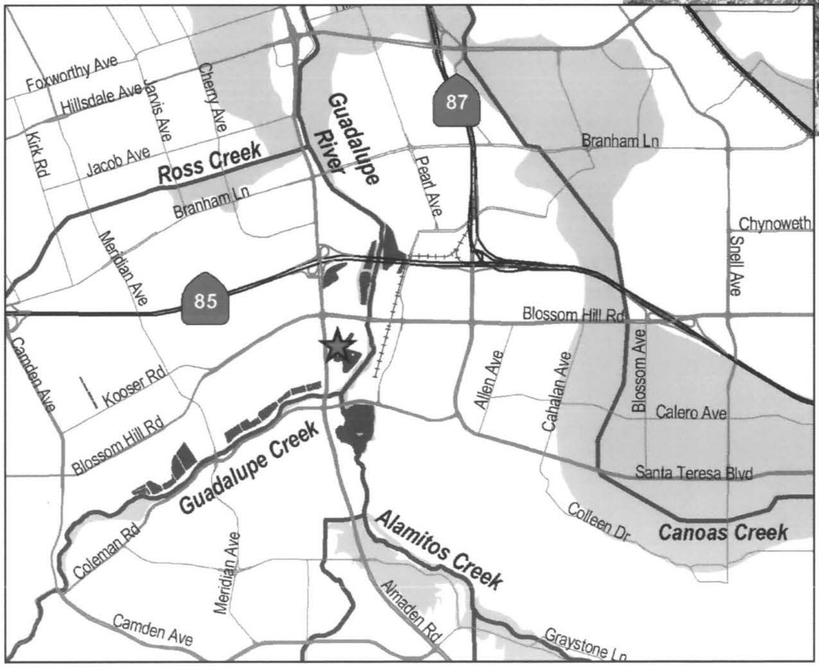
POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from the construction of this project.

The Crest Building is currently used for conferences and is planned to be the location of an on-site daycare facility.

★ Project Location

▨ 1 Percent Floodplain



Almaden and Winfield Campus

Project Number:
602023

Sponsoring Division:
Technical Services

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

- To maximize the utilization of the Administration, Maintenance, and Crest Buildings, the Blossom Hill Annex, and the Almaden and Winfield Corporation Yard Buildings, including the Administration Warehouse, and any newly acquired properties with a focus on flexibility, operational efficiency, prudent financial stewardship, increased customer service, and optimization of public benefit.
- To maximize the effectiveness of the campus to demonstrate Water Resources Management to the community.
- To improve onsite pedestrian and vehicular traffic patterns and parking configurations to maximize safety and efficiency.
- To ensure that District facilities are safe and provide for a healthy work environment.
- To conduct a District-wide Needs Assessment for the updated Master Plan.
- To develop a financial strategy to fund the construction of projects recommended in the Master Plan.

BENEFITS

- Policy EL-3 - "With respect to the treatment of staff and volunteers, the CEO may not cause or allow conditions which are unfair, undignified, disorganized, or unclear."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained
- Policy EL-7, Article 7.10 - "Further...he/she shall not spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

- Project Management Services including, but not limited to, scope, costs, and schedule management and control.
- Management of Consultant Agreements for providing Architectural and Site Planning Services and the preparation of Environmental Documentation.
- District-wide Needs Assessment which will categorize and prioritize all facility issues.
- Outreach to the neighboring community and other external stakeholders to identify their interests with this project.
- Updated Master Plan which includes an analysis of the Almaden and Winfield Campuses and recommendations for necessary modifications, possible new construction, potential consolidation of campus functions, and rerouting of campus traffic patterns.
- Final Environmental Document which complies with CEQA requirements of the projects recommended by the Master Plan.

The Winfield site offers a host of possibilities.

SCHEDULE

INITIATION AND COMPLETION DATES

January 2001 to June 2005

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning	■	■	■								
	Design											
	Construction											

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
602023	Almaden Winfield Campus	1,049	6,806	253	212	0	0	0	0	0	0	0	0	8,320

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

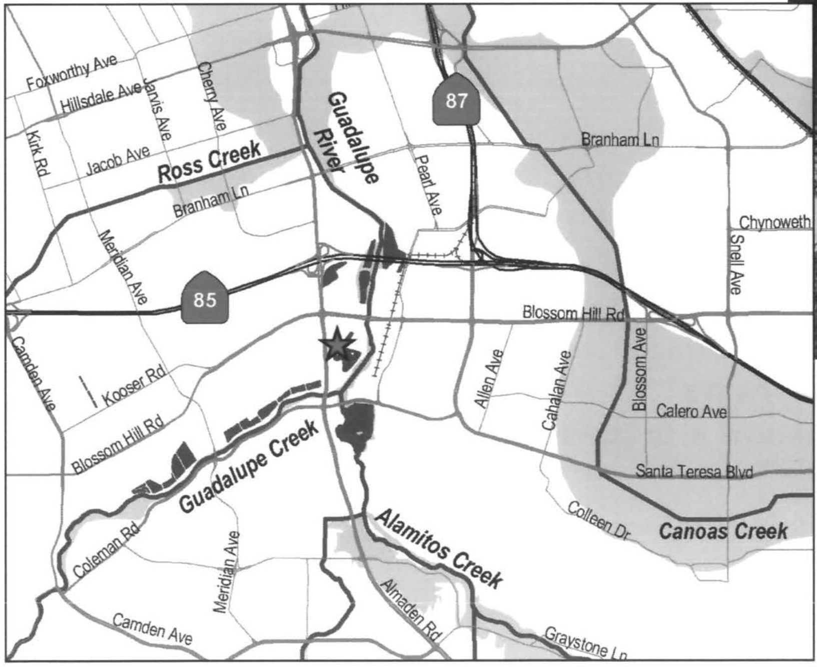
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Production of the Master Plan will not have any impacts to the Operating Budget. However, implementation of any recommended projects in the Master Plan may have impacts to the Operating Budget. These impacts, If any, are not known at this time.

The Administration Building will be evaluated.



★ Project Location

▨ 1 Percent Floodplain

Almaden Campus Energy

DISTRICT GENERAL FUND

Project Number:
602025, 602026

Sponsoring Division:
Business Resources

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Reduce electrical costs to the District and increase power reliability.
- Reduce negative environmental impacts of power generation.
- Provide a visible installation that evidences the District's ongoing commitment to environmental stewardship.
- Provide a highly visible display in Headquarters that shows dollars saved and measures impact on environment.

BENEFITS

District will achieve:

- Improved electrical power reliability, security, self dependency and power cost control at Almaden Headquarters Campus.
- Increased HVAC energy efficiency at the Almaden Headquarters Campus.
- Improved air quality.

SCOPE OF WORK

There are two projects in this scope of work, both at the Almaden Headquarters Campus. The first project will install an approximate 1000 kW, 480 V, 3-phase, 60 Hz natural gas generator and heat recovery system. This natural gas generator will be used to feed the electrical load of the entire Almaden campus. A data logger will be installed in the Board Room lobby to display real-time energy generation, cost savings and air quality improvement data. The heat recovery system installed under this project will be used to support the HVAC in the administration building. The second project will install: (1) new solar modules mounted on the roof of the Administration Building; (2) new solar modules mounted on two new carports to be located in the parking lot, between the Headquarters and the Administration Building, adjacent to Almaden Expressway.

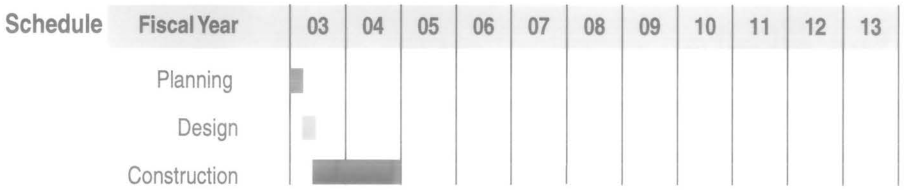
These scopes of work are accounted for in the following job numbers:
602025 Almaden Campus Gas Generator & Heat Recovery
602026 Almaden Campus Solar Energy

Architect's 3D rendering of the carport with Headquarter Building in the background

SCHEDULE

INITIATION AND COMPLETION DATES

July 2002 to June 2004



COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
602025	Almaden Campus Gas Generator & Heat	420	2,030	0	0	0	0	0	0	0	0	0	0	2,450
602026	Almaden Campus Solar Energy	1,089	1,061	0	0	0	0	0	0	0	0	0	0	2,150
Total		1,509	3,091	0	0	0	0	0	0	0	0	0	0	4,600

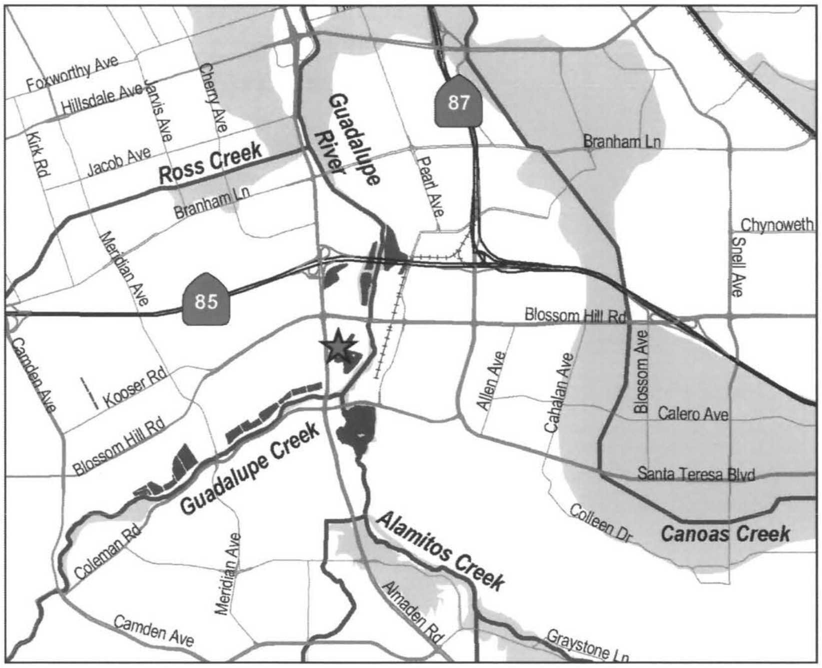
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes.

PARTNERING AGENCIES
Incentive rebates from California Public Utility Corporation (CPUC).

COST SHARING FORMULA
Estimated incentive for the Gas Generator project is currently $766 per kW.
Estimated incentive for the Solar project is approximately $1,053,000.

REIMBURSEMENT SCHEDULE
Current projections are 90 days after completion of construction, which is currently scheduled to be June 2004 for both projects.



★ Project Location

▨ 1 Percent Floodplain

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
602026	Almaden Campus Solar Energy	California Public Utilities Commission		0	1,053	0	0	0	0	0	0	0	0	0	1,053
602025	Almaden Campus Gas Generator & Heat	California Public Utilities Commission		0	766	0	0	0	0	0	0	0	0	0	766
Total				0	1,819	0	0	0	0	0	0	0	0	0	1,819

OPERATING BUDGET IMPACTS
The Gas Generator project is expected to reduce electrical costs by $150,000 per year. Routine maintenance will cost approximately $45,000 per year, with a life expectancy of approximately 15 years. The Solar Energy project is expected to reduce electrical costs by $50,000 per year. Routine maintenance will cost approximately $20,000 per year, with a life expectancy of approximately 20 years.

Administration Building HVAC

DISTRICT GENERAL FUND

Project Number:
602027

Sponsoring Division:
Technical Services

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

To replace 30+ year old Heating, Venting, Air Conditioning (HVAC) system to:

- Maintain suitable and safe office environment for staff located in Administration building
- Provide outlet for excess heat produced by Board approved co-generation project that will provide the District with a power source independent from PG&E electric grid.

BENEFITS

- Policy EL-7, - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-7, Article 7.3 - "Further...he/she shall not subject plant and equipment to improper wear and tear or insufficient maintenance."

SCOPE OF WORK

This project will include piping from generator, to be located in Corporation Yard, to equipment and new HVAC equipment on the roof of the Administration building. At the time that the equipment is replaced, the portion of the roof under the existing equipment will also be replaced.

SCHEDULE

INITIATION AND COMPLETION DATES

April 2004 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction		■									

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
602027	Administration Building HVAC	0	0	600	0	0	0	0	0	0	0	0	0	600

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

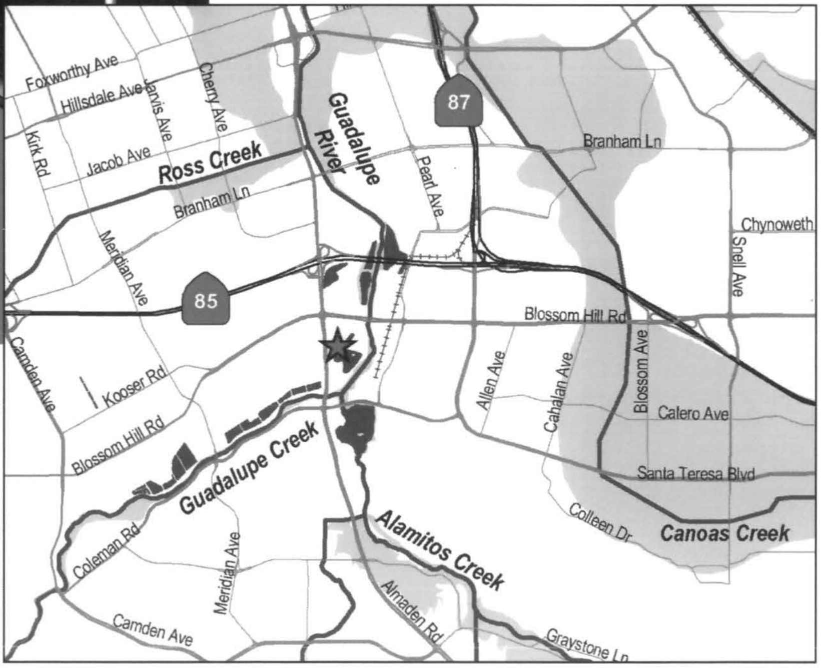
POTENTIAL COST SHARING

None.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined in the future.

HVAC unit on top of Administration Building to be replaced.



Information Systems Master Plan

Project Number:
602751, 602752, 602753
602754, 602755, 602756
602757, 602758

Sponsoring Division:
Information Management

Project Manager:
Mark Li

OVERVIEW

OBJECTIVES

- The objective for this project for fiscal year 2002 and beyond, defined as Phase III of the Information Systems Master Plan (ISMP), is to implement the initiatives identified and recommended by the ISMP that will meet District information management needs.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Upgrading all systems as defined in the ISMP enables the District to adopt improved business practice, increase efficiencies and position itself to support future business performance monitoring and real-time customer response requirements. Specific implementation plans will be developed by each team as each system development project is defined.

602751 = Infrastructure Upgrade
602752 = Web Based Information System
602753 = Supervisory Control and Data Acquisition
602754 = Computerized Maintenance Management System
602755 = Geographic Information System
602756 = Enterprise Resource Plan
602757 = Water Resource Information System
602758 = Electronic Document Management System

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to June 2006

Phase III of the ISMP will be a multiyear project which began August 1, 2001, and is expected to take 2 more years to complete. Enterprise Resource Planning for Finance, Payroll and Human Resources are scheduled for completion July 2003. Other ISMP projects will be initiated during or after the Enterprise Resource planning is completed.

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	▨	▨	▨	▨							

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
602751	Infrastructure Upgrade	15	217	0	17	0	0	0	0	0	0	0	0	249
602752	Web-Based Information System	153	1,199	0	131	0	0	0	0	0	0	0	0	1,484
602753	SCADA	2	194	105	111	0	0	0	0	0	0	0	0	410
602754	CMMS	82	957	0	52	0	0	0	0	0	0	0	0	1,091
602755	GIS	1	39	65	117	0	0	0	0	0	0	0	0	222
602756	ERP	4,944	1,318	805	293	0	0	0	0	0	0	0	0	7,361
602757	WRIS	2	1,722	1	75	0	0	0	0	0	0	0	0	1,801
602758	EDMS	0	123	256	366	0	0	0	0	0	0	0	0	745
Total		5,199	5,769	1,231	1,162	0	0	0	0	0	0	0	0	13,361

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

OPERATING BUDGET IMPACTS

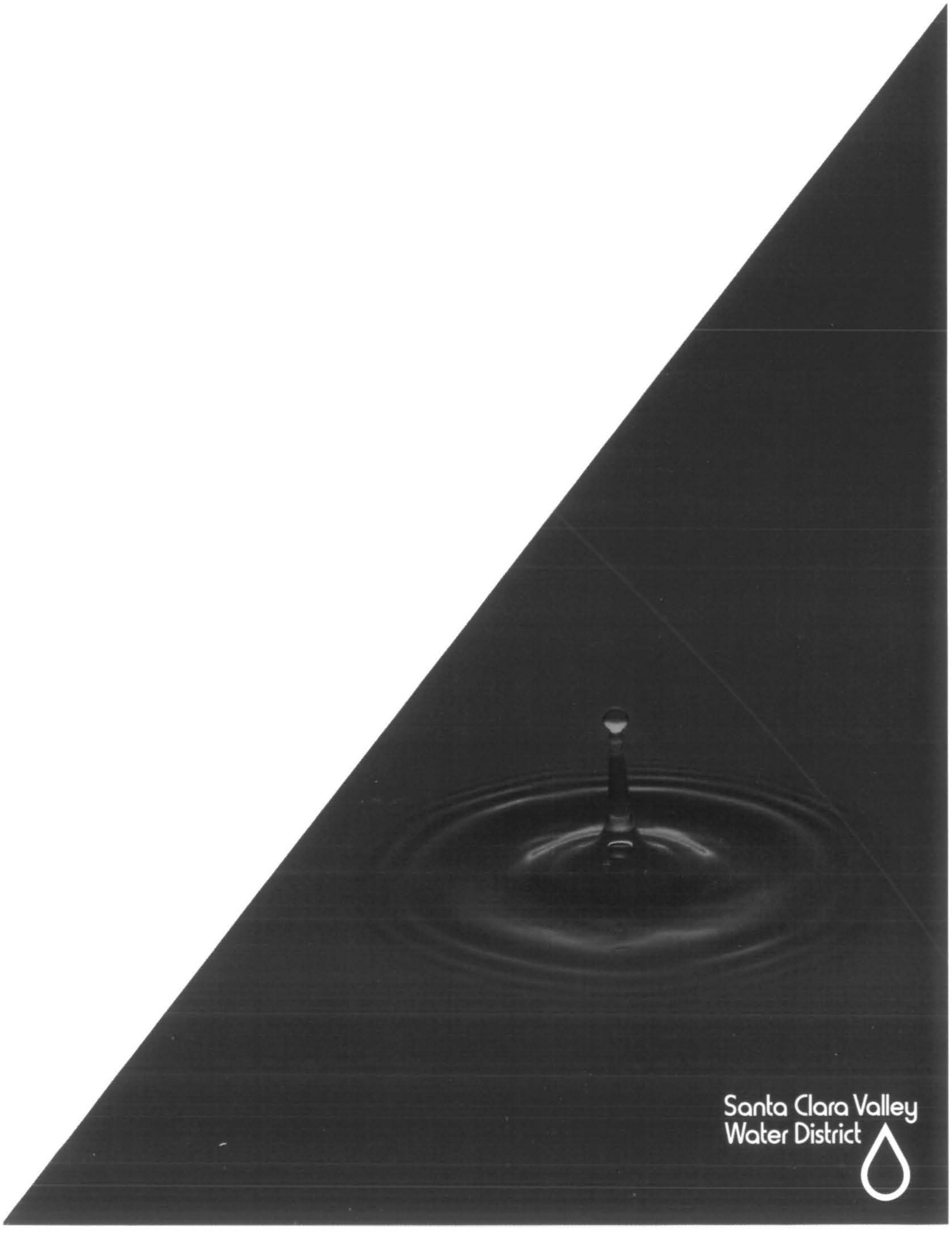
No operating impacts are anticipated from the construction of this project.

Enterprise Resource Planning Team

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Equipment Service Fund



Santa Clara Valley
Water District

Equipment Fund

EQUIPMENT SERVICE FUND

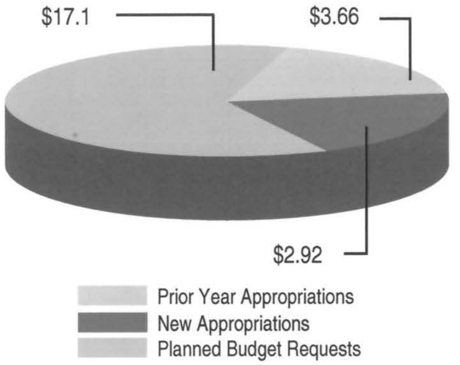
FUND OVERVIEW

This Equipment Service Fund was established for the purpose of operating maintaining, and replacing certain District-owned operating equipment and systems. There are currently two major equipment service programs provided through this fund: Vehicles and Field Equipment, and Information Technology Equipment. The Equipment Service Fund is operated on a charge back basis. Replacement and maintenance costs for Class I and IV equipment are recovered through Intra-District charges allocated as a certain percentage of labor effort performed in each fund.

FINANCIAL OVERVIEW

Equipment Service Fund
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013

Total: $23.7 million



COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual	Balance Remain	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
700001S	Vehicle Equipment Acquisitions	7,984	3,249	1,192	1,192	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	23,454
750001S	Office Computers Equipment	3,872	408	50	485	530	530	530	530	530	530	530	530	9,055
	Total	11,856	3,657	1,242	1,677	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	32,508
	Total (with inflation)	11,856	3,657	1,242	1,677	1,923	1,980	2,040	2,101	2,164	2,229	2,296	2,365	35,530
	15-Yr Investment		3,657	2,919		17,098								23,674

Vehicle Equipment Acquisitions

Project Number:
700001, 700002

Sponsoring Division:
Technical Services

Project Manager:
Darryl Williams

OVERVIEW

OBJECTIVES

- To provide new acquisition or upgrades to existing vehicles and equipment in order to accommodate the changing needs of the District.

BENEFITS

- EL-7 - The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked.

SCOPE OF WORK

These capital projects provide for acquisition of new and replacement vehicles in the District fleet, according to established criteria. This effort is funded from the District Fund through an operating transfer to the following projects:

700001 = New Vehicle Equipment Acquisitions
700002 = Replacement Vehicle Equipment

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to June 2016

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	■	■	■	■	■	■	■	■	■	■	■

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
700001	New Vehicle Equipment Acquisitions	2,144	1,248	562	562	600	600	600	600	600	600	600	600	9,317
700002	Replacement Vehicle Equipment	5,840	2,001	630	630	630	630	630	630	630	630	630	630	14,136
Total		7,984	3,249	1,192	1,192	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	23,454

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

None

Office Computers Equipment

Project Number:
750001, 750002

Sponsoring Division:
Information Management

Project Manager:
Seth Johnson

OVERVIEW

OBJECTIVES

- To provide adequate computing tools for employees to perform their functions in meeting the District mission and goals.

BENEFITS

- EL-7 - The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked.

SCOPE OF WORK

These capital projects provide for acquisition and replacement of office computers, Computer equipment, and software for new positions or newly defined requirements for existing positions. This effort is funded in the following projects:

750001 = Office Computers, New Equipment
750002 = Office Computers, Replacement Equipment

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to June 2016

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
750001	Office Computers New Equipment	980	112	50	85	30	30	30	30	30	30	30	30	1,468
750002	Office Computers Replacement Equipment	2,892	296	0	400	500	500	500	500	500	500	500	500	7,587
Total		3,872	408	50	485	530	530	530	530	530	530	530	530	9,055

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

POTENTIAL COST SHARING

None

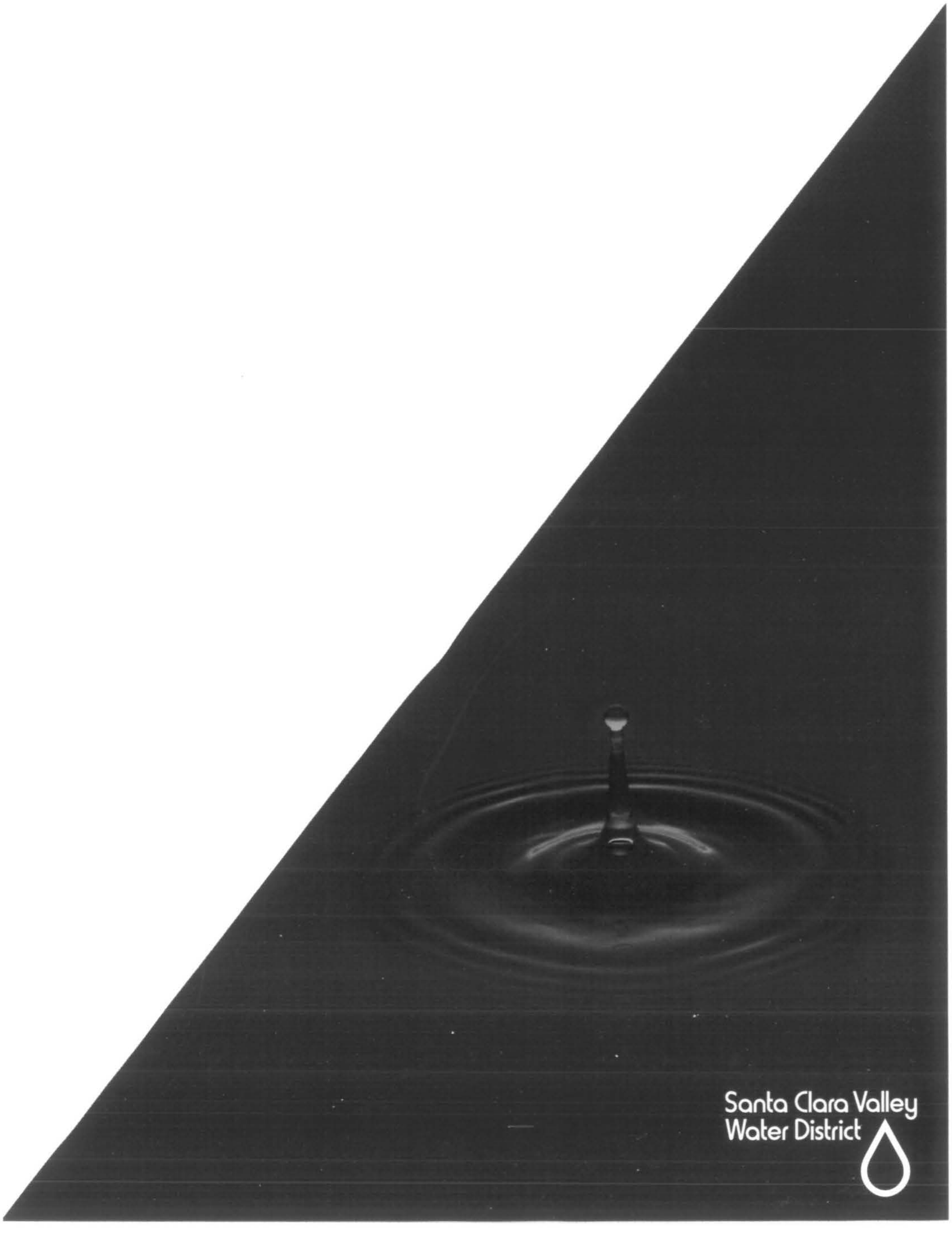
OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Risk Management Service Fund



Santa Clara Valley
Water District

Risk Management

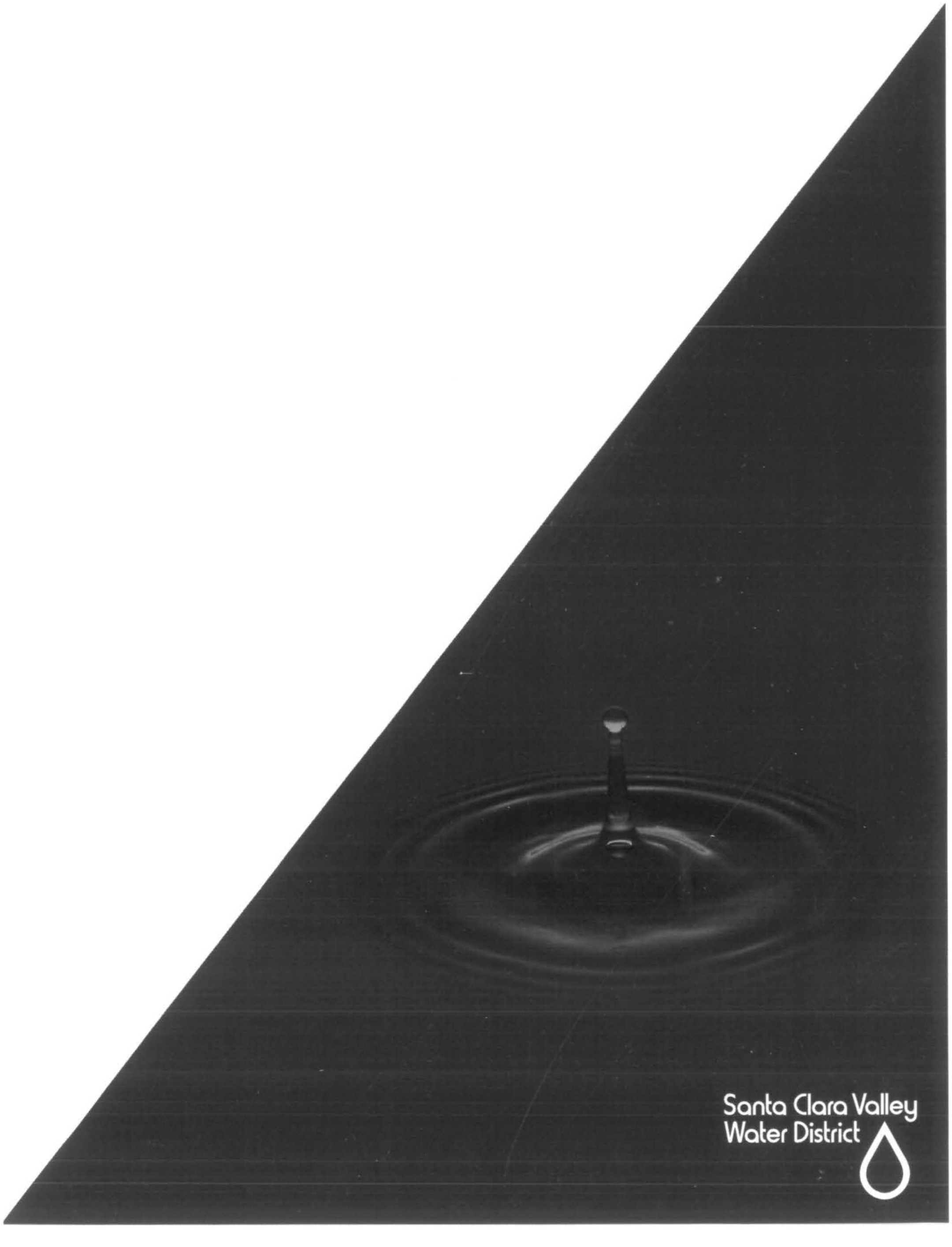
RISK MANAGEMENT SERVICE FUND

There are no capital projects planned for this fund.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Water Utility Enterprise



Santa Clara Valley
Water District

Water Utility
Enterprise

WATER UTILITY ENTERPRISE

PROGRAM OVERVIEW

The District's Water Utility Enterprise Program (Utility) provides a reliable supply of healthy, clean drinking water to residents, businesses and visitors of the Santa Clara County (County), and protects, enhances, or restores the County's watersheds, streams, and the natural resources. The Utility is operated as a private business enterprise. It produces goods, delivers the goods to its customers, and charges the customers to recover the costs of production and delivery.

Goods produced by the Utility
- Treated water
- Raw water

Customers of the Utility
- 1.7 million people
- thousands of businesses in Santa Clara County
- watersheds and streams

To ensure the quality and quantity of the goods and cost-effective investments of customer dollars, the Utility operates a complex system of infrastructures to perform comprehensive and integrated functions as follows.

Infrastructures to perform the functions of obtaining, purchasing, and protecting the Utility's sources of water supply:
- 10 surface reservoirs
- 3 pump stations
- groundwater basin

Infrastructures to perform the functions of distributing raw water to the Utility's groundwater recharge facilities and three treatment plants:
- 393 acres of groundwater recharge ponds
- 7 miles of canals
- 103 miles of raw water pipeline

Infrastructures to perform the function of treating raw water and producing high-quality drinking water:
- 3 water treatment plants

Infrastructures to perform the function of distributing treated water to the Utility's customers:
- 42 miles of treated water pipeline

CAPITAL IMPROVEMENT PROGRAM

In general, the Utility's capital improvement program accomplishes the following two outcomes:

1. Ensure the reliability and integrity of the Utility's infrastructure
2. Facilitate or enhance the Utility's abilities to produce and deliver goods and perform associated functions.

During the last two decades, the Utility's capital improvement program was focused on building new facilities to enhance its ability to produce and deliver goods and perform associated functions. In the 1980s and early 1990s, the Utility embarked on an aggressive capital improvement program to implement the strategies identified in the 1975 Water Supply Master Plan. New raw water pipelines, treated water pipelines, and treatment plants were constructed.

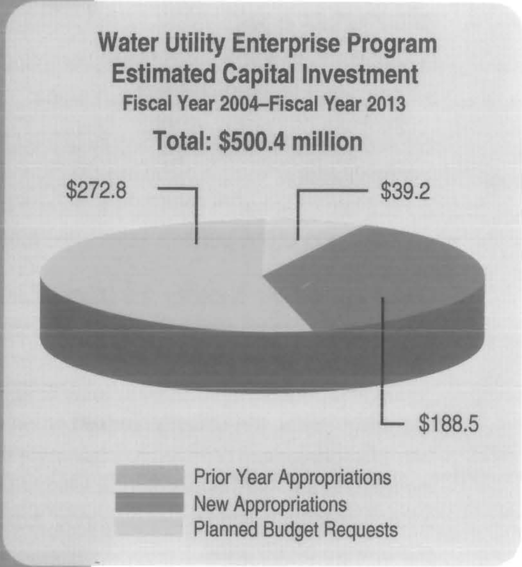
With the aging of the Utility's infrastructures and more stringent water quality, health and safety, and work environment regulations, it is anticipated that the Utility's capital improvement program for the next 10 years will focus on ensuring the reliability and integrity of its infrastructures.

The Utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. This plan will serve as the blue print for identifying new capital projects. The Utility's Ten-Year Capital Improvement Program will be more fully developed after the Asset Management Plan is completed.

FINANCIAL OVERVIEW

All the activities within the Utility, including its capital improvement program, are financed by the Water Enterprise Fund. See the Water Enterprise Fund section for a detailed description of the fund.

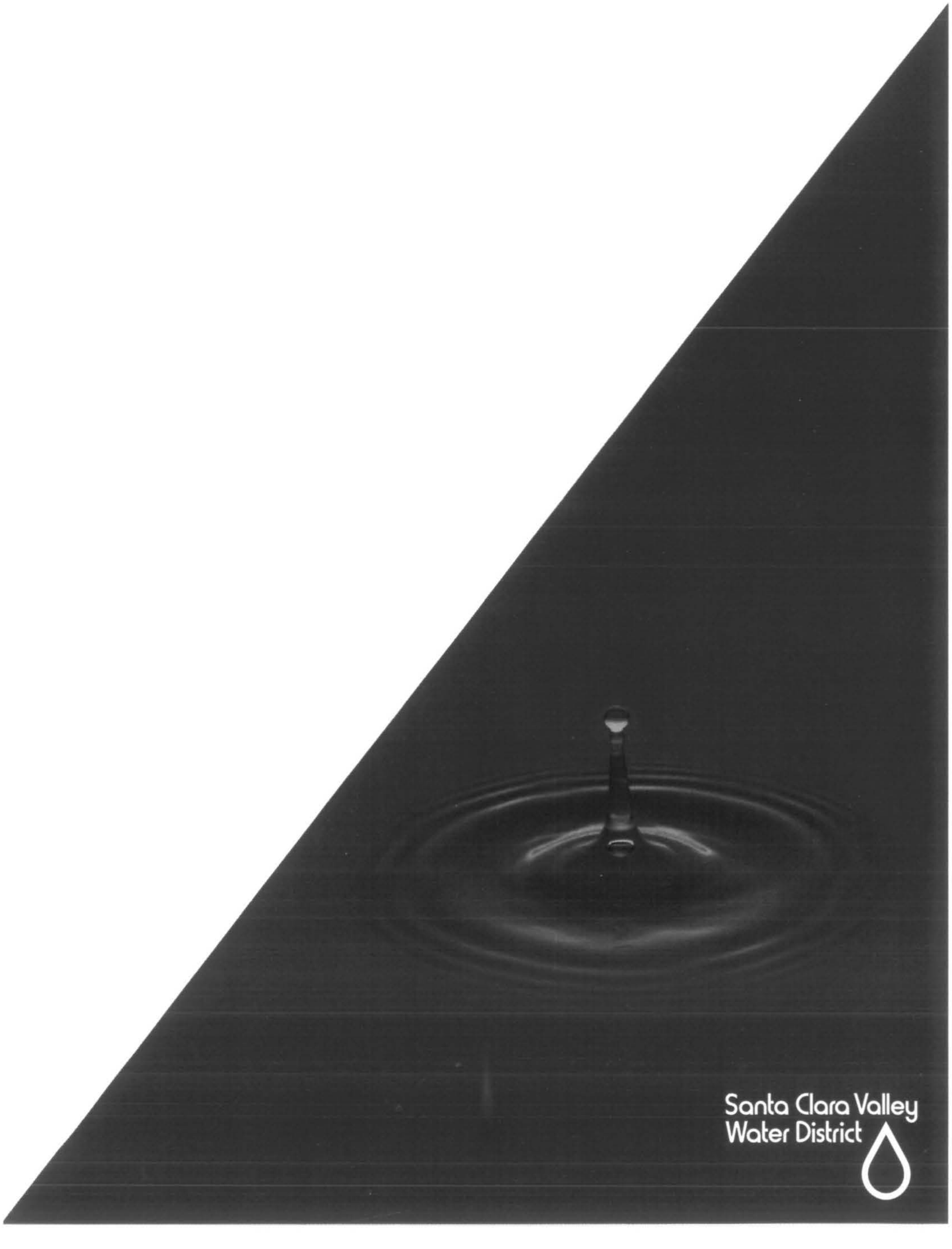
The estimated capital investments to complete current and future capital projects, as shown in the pie chart below, come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.



CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Water Enterprise Fund



Santa Clara Valley
Water District

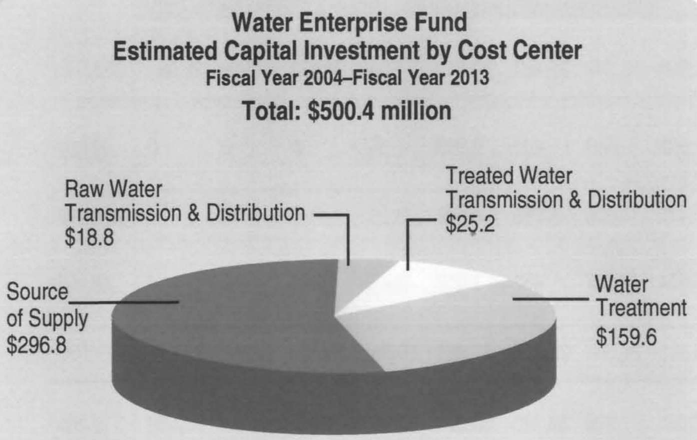
WATER ENTERPRISE FUND

FUND OVERVIEW

The Utility's assets, liabilities, equity, revenue, and expenditures or expenses are accounted for in the Water Enterprise Fund. The intent of the Enterprise Fund is that the continuing cost of providing and delivering goods and associated functions be financed or recovered primarily through user charges. Therefore, user charges are the main sources of revenue for the Water Enterprise Fund. They are charges levied on all groundwater extracted within Zone W-2 and Zone W-5 of the District and from the sale of approximately 130,000 acre-feet of treated water. Other water charges are made for surface water diversions and sales of recycled water in the Gilroy area.

- Zone W-2 encompasses the Santa Clara Valley Groundwater basin north of Metcalf Road. It includes those groundwater-producing facilities that benefit from recharge of the basin with local and imported water.
- Zone W-5 is comprised of the entire groundwater basin from Metcalf Road south to the Pajaro River.

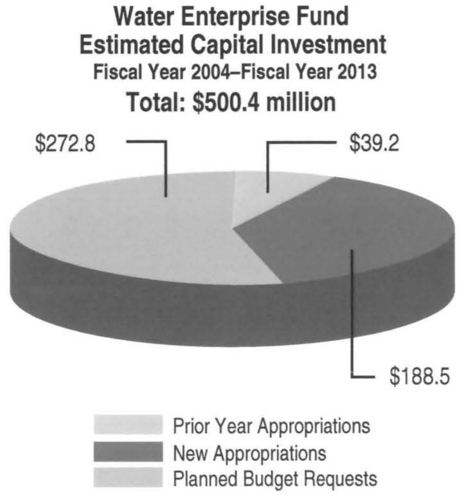
Under uniform accounting practices adopted by the State of California, it is necessary to divide expenditures of the Water Enterprise into various categories called cost centers. Each cost center contains all the anticipated expenditures associated with the infrastructure and functions within the particular cost center.



Cost Centers of the Water Utility Program

- Source of Supply
- Raw Water Transmission & Distribution
- Water Treatment
- Treated Water Transmission & Distribution
- Administration & General

Due to unique needs of its infrastructure, each cost center has a separate capital improvement program. A detailed description of the capital improvement program for each cost center, including major capital projects completed and the scope, schedule, and cost of current and future projects, are provided in the following sections. Each section represents a cost center of the Utility. Note: the Administration & General Cost Center has no capital projects.



FINANCIAL OVERVIEW

The estimated capital investment to finance current and future capital projects are shown in the following pie charts. The first pie chart presents the total capital investments by cost centers and the second pie chart presents the same total by prior year appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

FUNDING SOURCES

There are four categories of revenue sources available to the Water Enterprise Fund for funding current and future capital projects. These sources include debt financing, available annual revenue, partnerships, and capital reserves.

AVAILABLE ANNUAL REVENUE

The Available Annual Revenue is the portion of the operating revenue available annually for the capital improvement program.

DEBT FINANCING

The Water Enterprise Fund implemented a $100 million commercial paper debt financing program in FY 2003. For FY 2004 and FY 2005, the Water Enterprise Fund plans to sell $175 million worth of revenue bonds to help finance the capital improvement program.

PARTNERSHIP

Refer to the green project pages for details about partnership contributions for Central Pipeline Modification, San Luis Reservoir Low Point, and Jacques Gulch Restoration projects.

CAPITAL RESERVE

The Water Enterprise Fund will have accumulated approximately $8.381 million in its capital reserve at the beginning of FY 2004.

COST

Current & Future Capital Projects (in Thousands $, present worth)

	Est. Actual	Balance Remain	Newly Appproprіated		Planned Budget Requests								Est. Total Cost
Fiscal Year	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
Source of Supply	28,391	11,498	23,134	37,121	12,624	18,544	22,192	19,415	24,782	33,432	28,994	22,962	283,089
Raw Water Transmission & Distribution	11,779	5,616	2,547	3,022	2,602	540	490	2,989	22	0	0	0	29,607
Water Treatment	168,778	19,404	30,428	85,621	2,475	4,606	5,955	4,405	3,360	0	0	0	325,032
Treated Water Transmission & Distribution	9,710	2,683	4,025	2,587	7,604	601	467	1,012	2,223	1,891	0	0	32,803
Total	218,659	39,201	60,133	128,351	25,305	24,291	29,104	27,821	30,387	35,323	28,994	22,962	670,530
Total (with inflation)	218,659	39,201	60,133	128,351	27,651	27,339	33,740	33,221	37,373	44,747	37,831	30,859	719,105
15-Yr Investment		39,201	188,484		272,761								500,447

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

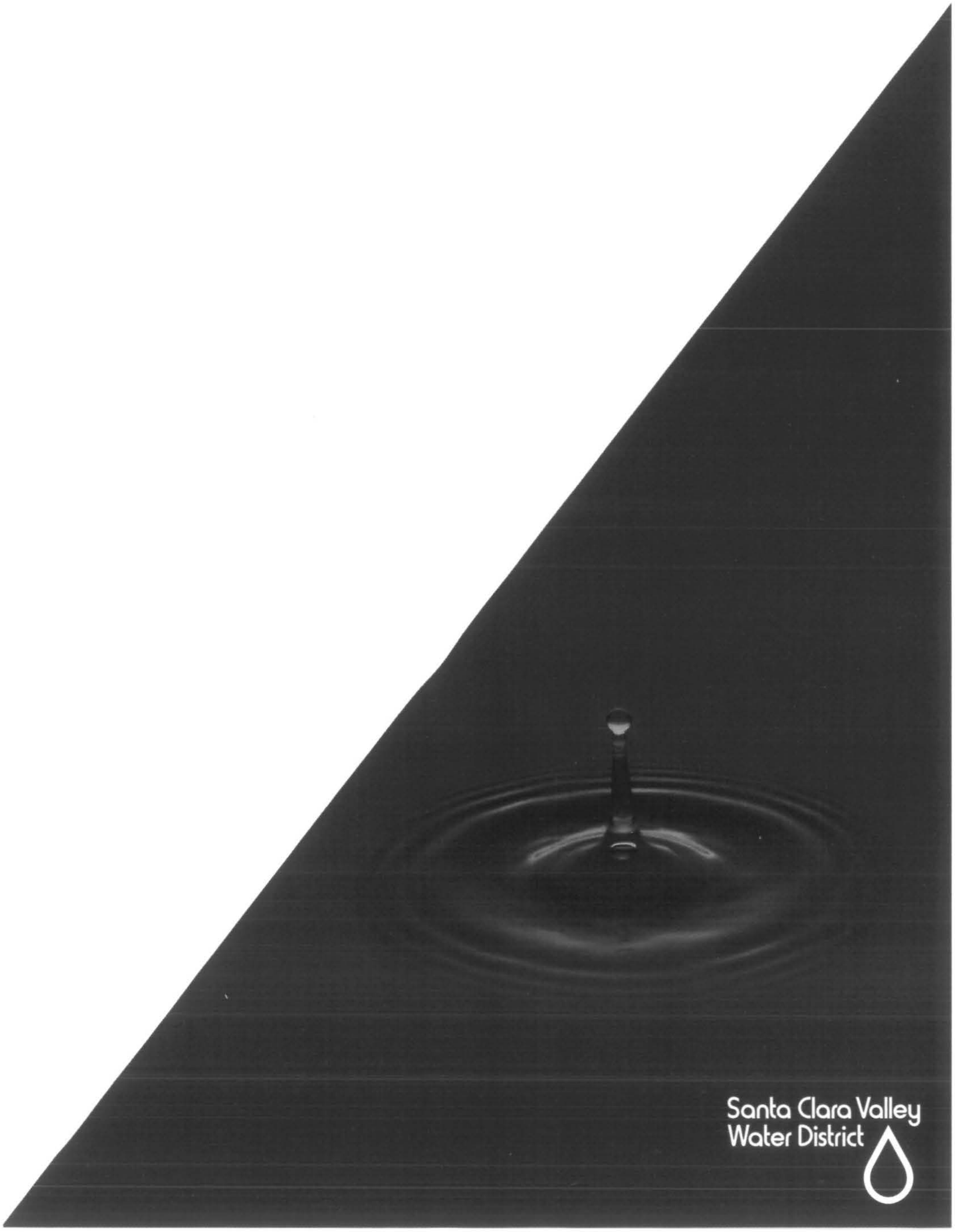
Project	**Fiscal Year**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13-16**	**Est. Total**
922503	Central PL Modifications, Capital & Berryessa	0	192	0	0	0	0	0	0	0	0	0	192
912107	San Luis Reservior Low Point Improvement	0	0	10,601	3,438	0	0	0	0	0	0	0	14,039
918502	Jacques Gulch Restoration	0	150	250	0	0	0	0	0	0	0	0	400
Total		0	342	10,851	3,438	0	0	0	0	0	0	0	14,631

A brief description of changes and source of reimbursement can be found on project pages.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Source of Supply Cost Center



Santa Clara Valley
Water District

COST CENTER OVERVIEW

The Source of Supply Cost Center contains all the anticipated expenditures, including capital investments, related to obtaining, producing, and protecting a water supply; including all conservation, recycling, and importation costs. The infrastructure includes reservoirs, dams, and pump stations. The major functions include pumping, surface water storage, surface water importation, water conservation, water recycling partnerships and assistance, and groundwater and surface water quality protection.

CAPITAL IMPROVEMENT PROGRAM

As stated in the Program Overview, the Utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for source of supply infrastructures is complete.

MAJOR PROJECTS - COMPLETED

- Lexington Dam Freeboard Restoration
- Vasona Dam Radial Gates Replacement
- Abandonment of Two 24-Inch Concrete Pipes at Vasona Dam
- Lenihan Dam Outlet Repairs
- Water Facilities Signs

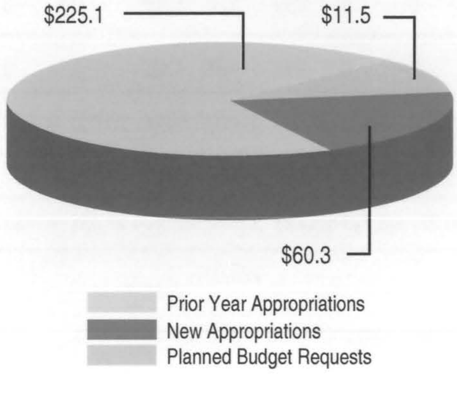
MAJOR PROJECTS - CURRENT

- Almaden Dam Outlet Works
- Fellows Dike Rehabilitation
- Lenihan Dam Outlet Modifications
- San Luis Reservoir Low Point Improvement
- Santa Clara Tunnel Landslide
- South County Recycled Water Improvements
- Flashboard Dam Improvements
- Dam Instrumentation
- Dam Seepage
- Water Banking
- Silver Creek Pipeline
- Jacques Gulch Restoration
- Anderson Reservoir Bank Erosion

MAJOR PROJECTS - FUTURE

- Guadalupe Dam Outlet Works Rehabilitation
- Calero Dam Outlet Works Rehabilitation
- Pacheco Fiber Optic Cable Replacement
- San Felipe 2002 Inspection Follow-up
- South County Pipeline Right of Way
- Pacheco Conduit Bifurcation Dewatering

Source of Supply Cost Center Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013
Total: $296.9 million



FINANCIAL OVERVIEW

The estimated 10-year capital investments to complete current and future capital projects came from prior years appropriations, new appropriations for 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
910408S	Water Infrastructure Reliability Program	2,293	304	370	40	1,995	0	0	0	0	0	0	0	3,007
910809	Flashboard Dam Improvement	0	0	780	5,166	1,014	565	0	0	0	0	0	0	7,525
910810	Dam Instrumentation	0	0	110	252	1,674	1,109	1,305	0	0	0	0	0	4,450
910811	Dam Seepage	0	0	458	290	890	0	0	0	0	0	0	0	1,636
910813	Geodetic Control Maintenance	0	0	238	16	0	0	0	0	0	0	0	0	254
910904S	South County Recycled Water Improvements	7,090	2,275	85	0	0	0	0	0	0	0	0	0	9,450
911201	San Tomas Well Field	5,403	97	609	64	0	0	0	0	0	0	0	0	6,173
911504	Water Facilities Sign	643	103	0	0	0	0	0	0	0	0	0	0	747
911505	Water Banking	0	0	1,462	2,100	2,896	4,955	4,326	2,874	2,903	2,932	2,962	2,962	30,372
911701	Silver Creek Pipeline	0	355	7,375	40	0	0	0	0	0	0	0	0	7,771
911808	Advanced Recycled Water Treatment	0	0	723	237	0	0	0	0	0	0	0	0	960
912107	San Luis Reservior Low Point Improve.	4,595	5,326	3,400	2,903	0	0	0	0	0	0	0	0	16,224
912203	Santa Clara Tunnel Landslide	3,624	290	383	76	0	0	0	0	0	0	0	0	4,373
912601	Vasona Pump Station, Chemical Feed	0	0	73	32	0	0	0	0	0	0	0	0	106
918501	Almaden Dam Works	1,457	1,124	(13)	4,525	341	0	0	0	0	0	0	0	7,434
918502	Jacques Gulch Restoration	0	0	178	936	85	85	85	0	0	0	0	0	1,368
918684	Anderson Reservior Bank Erosion	0	0	197	329	3,666	0	0	0	0	0	0	0	4,191
918703	Fellows Dike	905	653	4,217	814	0	0	0	0	0	0	0	0	5,588
919005	Lenihan Dam Outlet	2,382	971	1,835	17,457	440	360	0	0	0	0	0	0	23,445
919501	Pacheco Pumping Plant ASD Replace	0	0	653	1,843	1,618	1,470	1,476	0	0	0	0	0	7,060
91C070	Guadalupe Dam Outlet Works Rehab	0	0	0	0	0	0	0	239	550	600	3,480	0	4,869
91C071	Calero Dam Outlet Works	0	0	0	0	0	0	0	139	450	330	2,552	0	3,471
91C104	Pacheco Fiber Optic Cable Replace	0	0	0	0	0	0	0	240	162	675	0	0	1,077
91C105	San Felipe 2002 Inspection Follow-up	0	0	0	0	0	0	0	409	353	6,173	0	0	6,935
91C106	S. County Pipeline Right of Way	0	0	0	0	0	0	0	230	177	1,235	0	0	1,642
91C107	Pacheco Conduit Bifurcation Dewater	0	0	0	0	0	0	0	284	187	1,487	0	0	1,958
91C124	WUE Asset Management	0	0	0	0	10,000	15,000	15,000	20,000	20,000	20,000	20,000	20,000	120,000
	Total	28,391	11,498	23,134	37,121	12,624	18,544	22,192	19,415	24,782	33,432	28,994	22,962	283,089
	Total (with inflation)	28,391	11,498	23,134	37,121	13,794	20,871	25,727	23,183	30,479	42,352	37,831	30,859	325,241
	Capital Investment		11,498	60,254		225,097								296,850

* Estimated as of 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
912107	San Luis Reservior Low Point Improvement	0	5,807	4,781	3,450	0	0	0	0	0	0	0	14,038
918502	Jacques Gulch Restoration	0	150	250	0	0	0	0	0	0	0	0	400
Total		0	5,957	5,031	3,450	0	0	0	0	0	0	0	14,438

A brief description of changes and source of reimbursement can be found on project pages.

Water Infrastructure Reliability Program

Project Number:
910408, 917602

Sponsoring Division:
Water Utility Operations

Project Manager:
Dave Hook

OVERVIEW

OBJECTIVES

- Improve reliability and reduce vulnerability of County water supply facilities to natural and man-originated catastrophes.
- Establish an appropriate balance of level of service vs. cost/water rate impact.

BENEFITS

- Policy EL-7 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy E-2, Article 2.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-5, Article 5.10 – "Spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

This project will include determining the current level of service for District water supply facilities and USBR San Felipe Division water supply facilities after various hazards are applied and what should be done to provide an adequate level of service. The end result will be an adopted Water Infrastructure Reliability Plan that includes plans and actions for improved security procedures, operational procedures, capital projects, partnership agreements, work-arounds, mutual aid, and training.

Portland Bridge collapse in 1995

SCHEDULE

INITIATION AND COMPLETION DATES

March 2003 to July 2004

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design											
Construction											

COST

Current & Future Capital Projects (in Thousands $, present worth)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
910408	Regional Water Reliability	766	0	0	0	0	0	0	0	0	0	0	0	766
917602	Water Infrastructure Reliability	1,527	304	307	40	0	0	0	0	0	0	0	0	2,241
Total		2,293	304	370	40	0	0	0	0	0	0	0	0	3,007

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

This project is to adopt a plan and actions to reduce vulnerabilities against catastrophes like the Portland Bridge Collapse in 1995.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

San Benito County Water District is the other current customer for the San Felipe Division of the Central Valley Project. They pay a percentage of the costs for the facility.

COST SHARING FORMULA

To be determined, based upon a negotiated percentage of the project costs that can be allocated to San Felipe Division, Reach 1.

REIMBURSEMENT SCHEDULE

Yearly

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

Flashboard Dam Improvement

Project Number:
910809

Sponsoring Division:
Water Supply Management

Project Manager:
Dennis Cheong

OVERVIEW

OBJECTIVES

- Preserve water supply function.
- Improve staff safety.
- Reduce flood risk.

BENEFITS

- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-3, Article 3.4 - "Further... he/she shall not operate without written employee health and safety policies which (a) ensure that standards, programs, and procedures meet or exceed acceptable industry standards as written in State and Federal regulations, and (b) ensure a healthful and safe work environment for all District employees."
- Policy E-2, Article 2.2 - "There is reduced potential for flood damages."

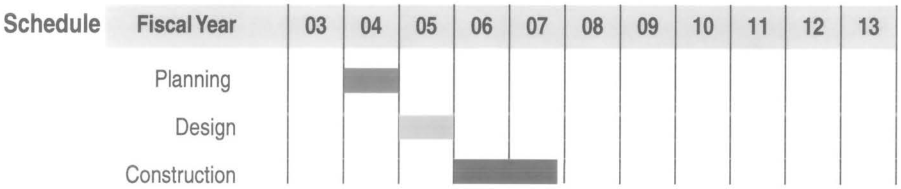
SCOPE OF WORK

Plan, design and construct replacement dams at Kirk, Alamitos, and Coyote Flashboard Dam sites.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to March 2007



Kirk Dam on Los Gatos Creek.

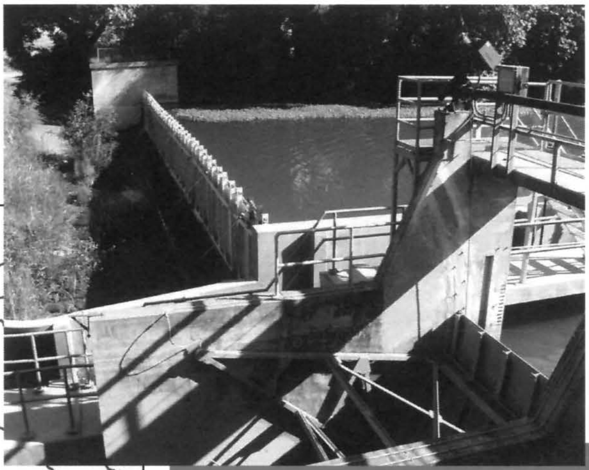
COST
(in Thousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
910809	Flashboard Dam Improvement	0	0	780	5,166	1,014	565	0	0	0	0	0	0	7,525

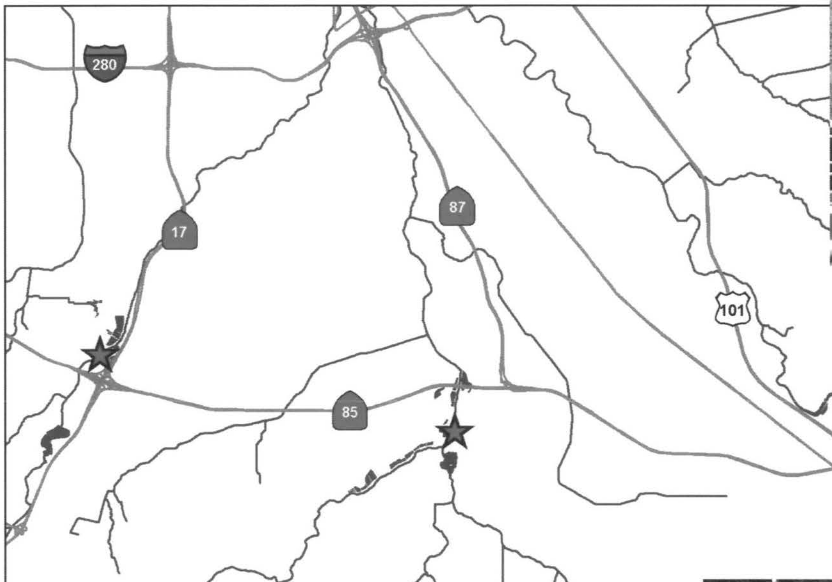
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
A reduction in operating cost after project completion is anticipated. This will be confirmed during the planning phase.



Coyote Steel Percolation Dam on Coyote Creek.



★ Project Location

Almitos Drop Structure on Guadalupe River.

Dam Instrumentation

Project Number:
910810

Sponsoring Division:
Water Utility Operation

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

This Dam Instrumentation Project (DIP) is a major element of the Dam Safety Program at the District. The DIP has as its principal goal to provide state-of-practice automated geotechnical instrumentation at Almaden, Anderson, Calero, Chesbro, Coyote, Guadalupe, Rinconada Treated Water Reservoir, Stevens Creek, Uvas and Vasona Dams.

- Monitor internal movement and water pressure at the ten District's dams referenced above.
- Develop an automated data acquisition system at each dam capable of collecting, checking, recording, and archiving the collected data.
- Develop an automated system that will send an alarm notice to select personnel in the event that an instrument exceeds a pre-set threshold limit.
- Develop an instrumentation system a several of the specified dams that will begin capturing data at a more rapid rate in the event of an earthquake in order to capture earthquake-induced displacement and pore pressures.

BENEFITS

- Policy E-2, "There is a healthy and safe environment for residents and visitors."
- Policy EL-7, "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

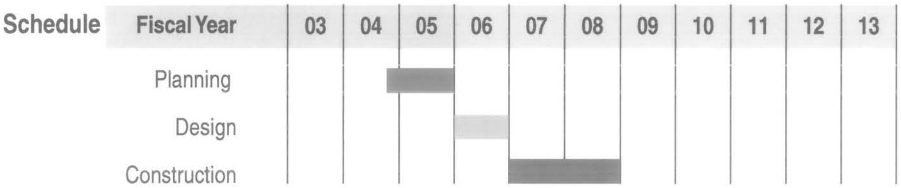
SCOPE OF WORK

- Determine final location of all instruments
- Design lightening protection for buried cable
- Design ADAS to collect and control data
- Develop final plans and specification to execute the work
- Provide oversight during installation of new instruments at all dams

SCHEDULE

INITIATION AND COMPLETION DATES

May 2004 to June 2008
(It is envisioned that three separate construction contracts will be bid in consecutive years. The sites for each contract will be determined based on priority and geographical proximity to other dams.)



COST
(in Thousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
910809	Dam Instrumentation	0	0	110	252	1,674	1,109	1,305	0	0	0	0	0	4,450

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

Piezometers similar to those being installed at Lenihan Dam will be installed at other dams during this project.

Project Number:
910811

Sponsoring Division:
Water Supply Management

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

The District has been notified by DSOD that the seepage that is occurring near the downstream toe of Almaden Dam and Calero Dam is unacceptable for safety reasons. DSOD has requested that the District design seepage mitigation measures in order to collect, monitor, and safely discharge the seepage away from the dam.

BENEFITS

- Policy E-2, "There is a healthy and safe environment for residents and visitors.
- Policy EL-7, "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."

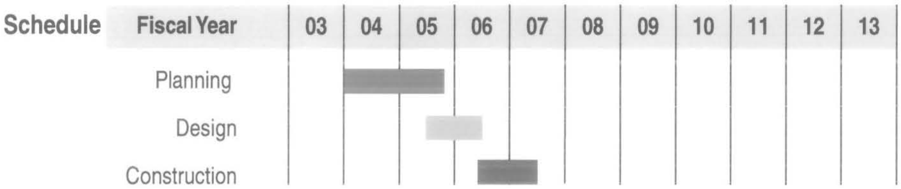
SCOPE OF WORK

- Using the Preliminary Design of the Seepage Mitigation Measures for Almaden and Calero Dams to be developed by the Dam Safety Group of the Water Utility Engineering Unit, prepare appropriate planning documents and develop final plans and specifications for bidding;
- Provide project oversight during construction of the seepage mitigation measure

SCHEDULE

INITIATION AND COMPLETION DATES

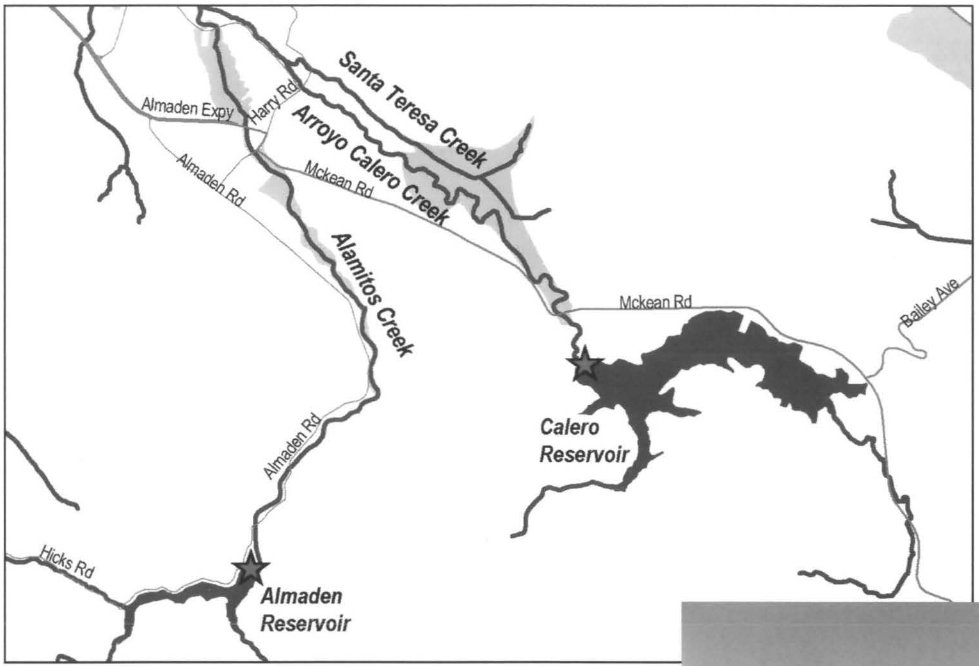
July 2003 to December 2006



COST
(in Thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
910811	Dam Seepage	0	0	458	290	890	0	0	0	0	0	0	0	1,638

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location

▨ 1 Percent Floodplain

Area of seepage mitigation and collection project

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Depending on the implemented measures there may be operating budget impacts.

Geodetic Control Maintenance

Project Number:
910813

Sponsoring Division:
Water Utility Operations

Project Manager:
Steve Choy

OVERVIEW

OBJECTIVES

To provide highly accurate horizontal control stations in support of District projects to monitor any seismic and tectonic activity. Under the program, the District will have the ability to monitor any relative movement around dams and treatment plants. This will allow for a higher level of service for emergency response to seismic activity at specific facilities.

BENEFITS

- Policy EL-7, "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."
- Policy E-2, Article 2.2 "There is reduced potential for flood damages."

SCOPE OF WORK

This project will provide updated values on approximately twenty (20) High Precision Geodetic Network (HPGN) stations and the establishment of four new Continuously Operating Receiver Stations (CORS) in the Santa Clara Valley.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		▬	▬								
Design											
Construction											

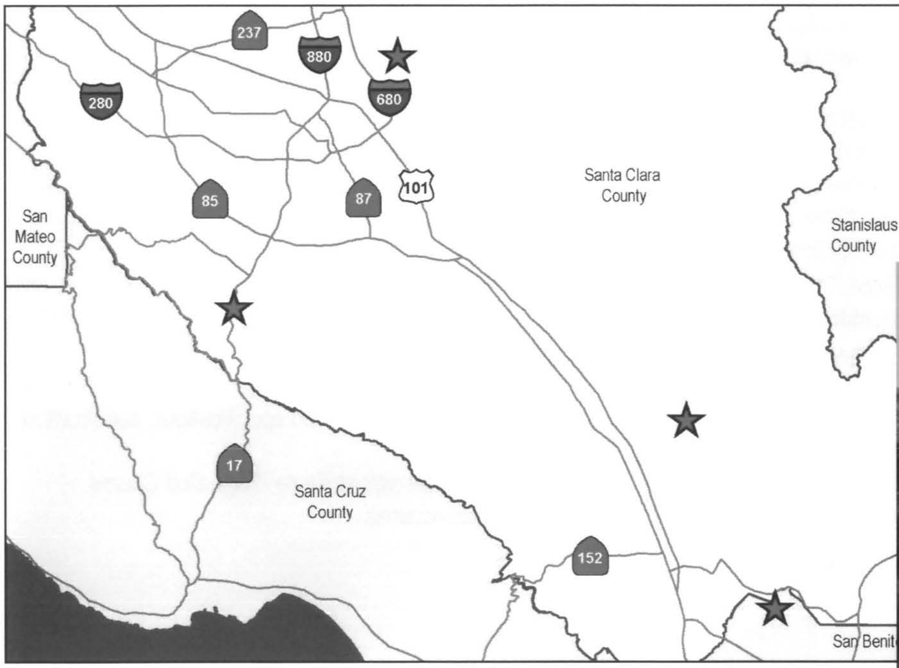
COST
(in Thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
910813	Geodetic Control Maintenance	0	0	238	16	0	0	0	0	0	0	0	0	254

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.



★ Project Location

Continuously Operating Receiver Station (CORS)

South County Recycled Water Improvements

Project Number:
910904, 910905, 910906

Sponsoring Division:
Water Supply Management

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

- Provide a modern water recycling system to preserve the existing resources.
- Adopt water conservation program and increase the use of recycled water in the South County area.
- Increase the reliability of the county's long-term water supplies, consistent with the Integrated Water Resources Project (IWRP)
- To fulfill the District's Partnership agreements with SCRWA, the City of Gilroy and the City of Morgan Hill to operate and expand the South County Recycled Water System.

BENEFITS

- Policy E-2, Article 2.1.6 - "Water recycling is expanded within Santa Clara County in partnership with the community, consistent with the District's Integrated Water Resources Plan (IWRP), reflecting its comparative cost assessments and other Board policies.

SCOPE OF WORK

Based on the agreement with South County Recycled Water Authority (SCRWA), the District paid SCRW to perform planning, design, preparation of plans and specifications, and construction of the following projects. The District is responsible for administration of the construction contracts for the following projects:

- Booster pump at Christmas Hill Park (910904).
- Reservoir at Eagle Ridge Golf Course (910904).
- Thomas Road water line extension (910904).
- Rehabilitation of existing eight-mile long, 12-inch diameter pipeline (910906).

The District was responsible for planning, design, and preparation of plans and specifications, construction and contract administration for the following project:

- New recycle water pipeline from Santa Clara Conduit to the reservoir at Eagle Ridge Golf Course (910905). This project was cancelled in FY 2003, after initial scoping.

Excavation for 1.5 million gallon recycled water reservoir above Eagle Ridge Golf Course in Gilroy.

SCHEDULE

INITIATION AND COMPLETION DATES

June 1998 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	░										
Construction	█	█									

COST

(in Thousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
910904	S. County Recycled Water Improvements	6,651	581	0	0	0	0	0	0	0	0	0	0	7,232
910905	Recycled Water Connect, Santa Clara Conduit	117	352	0	0	0	0	0	0	0	0	0	0	469
910906	Recycled Water PL Rehab, Coord with SCRWA	322	1,342	85	0	0	0	0	0	0	0	0	0	1,750
Total		7,090	2,275	85	0	0	0	0	0	0	0	0	0	9,450

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

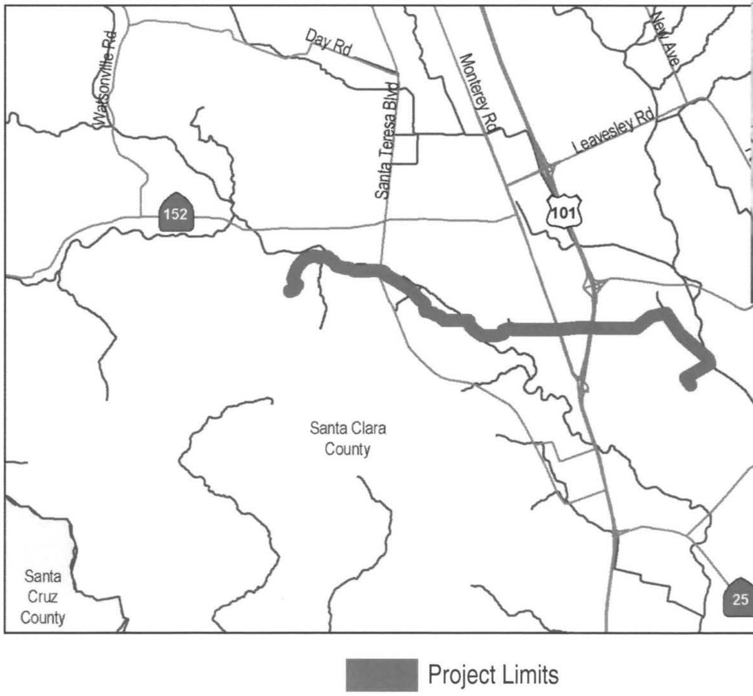
Retaining wall piles for 1.5 million gallon recycled water reservoir above Eagle Ridge Golf Course in Gilroy.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating impacts are anticipated and will be determined in the near future.



Project Number:
911201

Sponsoring Division:
Water Supply Management

Project Manager:
Tracy Ligon

OVERVIEW

OBJECTIVES

To enhance water supply management by preserving and improving groundwater extraction capacity.

BENEFITS

Policy E-2, Article 2.2.2.3 - “Groundwater supplies are sustained.”

SCOPE OF WORK

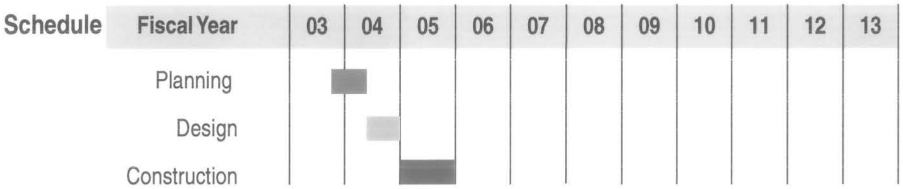
Purchase well field and plan for future use and disposition of assets.

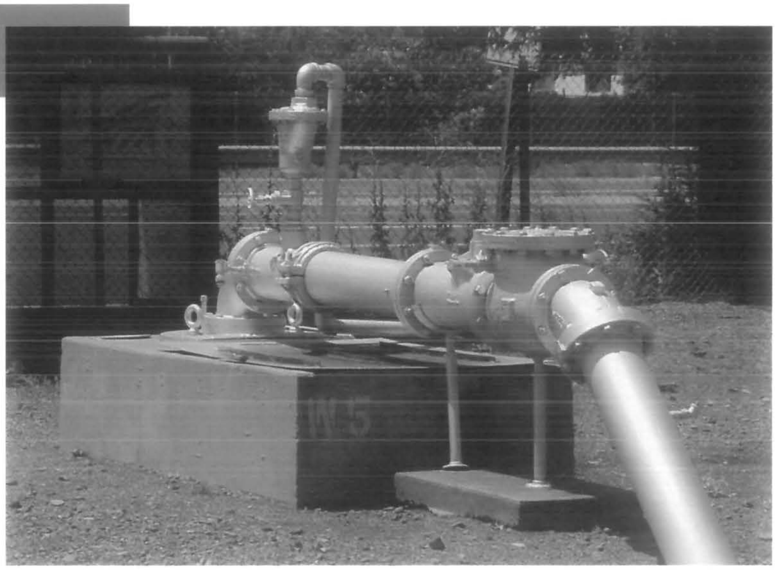
SCHEDULE

INITIATION AND COMPLETION DATES

March 2003 to June 2005

A schedule for future disposition of assets will be developed.





Typical groundwater extraction well at San Tomas Well Field.

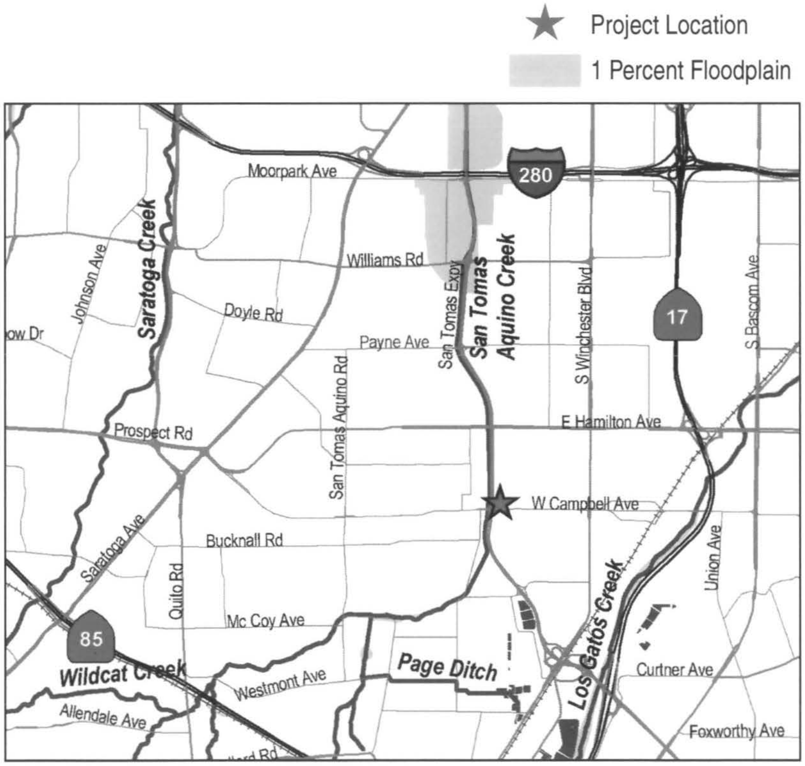
COST
(in Thousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
911201	San Tomas Well Field	5,403	97	609	64	0	0	0	0	0	0	0	0	6,173

* Estimated as of: 5/31/03. stimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
The District expects to recover the majority of the land purchase costs ($5.4 million) through the resale of the property to City of Campbell Redevelopment Agency.



Project Number:
911505

Sponsoring Division:
Water Supply Management

Project Manager:
Joan Maher

OVERVIEW

OBJECTIVES

Provide for capital investment in the Semitropic Groundwater Banking Program to implement this component of the Integrated Water Resources Management Program.

BENEFITS

Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

This project includes contract payments to Semitropic Water Storage District that result in increased District capital investment in the Groundwater Banking Program. These payments include: portions of the storage ("put") fees; portions of the withdrawal ("take") fees; and annual "cycling" fees related to water stored for more than 5 years.

SCHEDULE

INITIATION AND COMPLETION DATES

January 1996 to January 2006

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨

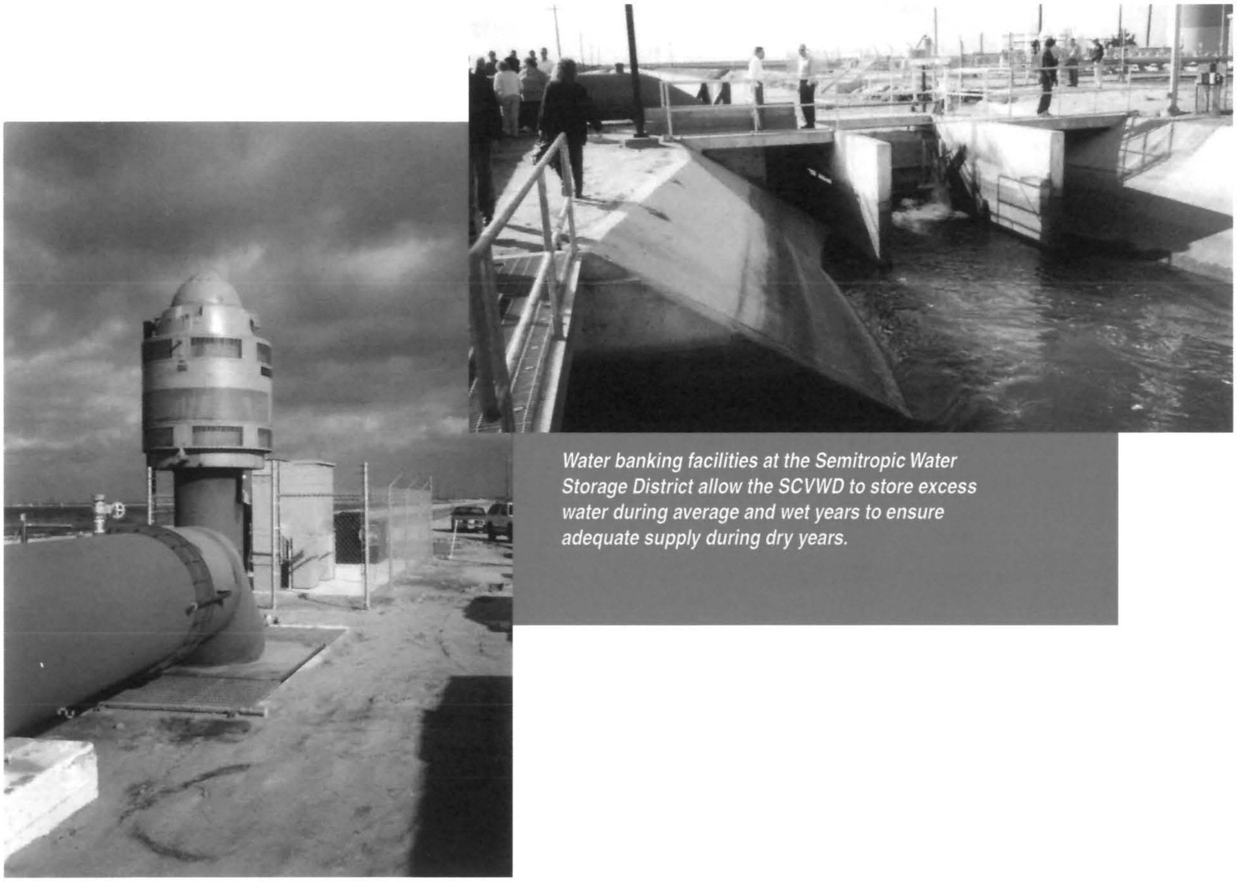
COST
(in Thousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
911505	Water Banking	0	0	1,462	2,100	2,896	4,955	4,326	2,874	2,903	2,932	2,962	2,962	30,372

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
The District entered into one-year agreements in 2001 and 2003 with the Department of Water Resources for sharing of program capacity and stored water with CALFED's environmental Water Account. Staff is continuing to pursue sharing agreements with DWR and others that my reduce the District's long-term costs.

OPERATING BUDGET IMPACTS
Operations and Maintenance impacts depend on the District's financial investment in the program and will be available in the future.



Water banking facilities at the Semitropic Water Storage District allow the SCVWD to store excess water during average and wet years to ensure adequate supply during dry years.

Silver Creek Pipeline

Project Number:
911701

Sponsoring Division:
Water Supply Management

Project Manager:
Hossein Ashktorab

OVERVIEW

OBJECTIVES

To increase the countywide use of recycled water the District is developing a partnership with the South Bay Water Recycling Program to extend the existing pipeline network into Coyote Valley and eventaully to the South County area. The District will also be developing a collaborative effort to investigate the partnership arrangements for the future operation and maintenance of the South Bay Water Recycling system.

BENEFITS

- Policy E-2, Article 2.1.6 - "Water Recycling is expanded within Santa Clara County in partnership with the community, consistent with the District's IWRP, reflecting its comparative cost assessments and other Board Policies."

SCOPE OF WORK

The District has entered into a partnership with the City of San Jose to oversize a pipeline to provide for the future delivery of recycled water to District groundwater customers south of San Jose. The project consists of design and construction of a 30" recycled water pipeline from the intersection of Yerba Buena Road and Silver Creek Valley Road in southeast San Jose to the Metcalf Energy Center in North Coyote Valley. The City of San Jose will manage the design of the project and provide for the award of contract and construction management services. The District will contribute money to pay for 25 percent of the total project cost and provide

District staff to periodically meet with the City staff and provide project overview to protect the District's interest.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	▨										
Construction	■	■									

COST
(in Thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
911701	Silver Creek Pipeline	0	355	7,375	40	0	0	0	0	0	0	0	0	7,771

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
City of San Jose and the Calpine Corporation

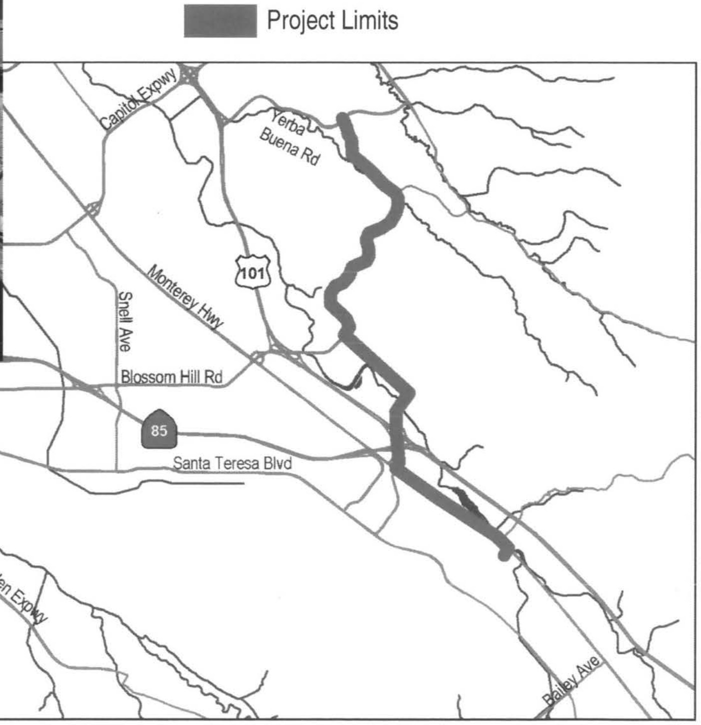
COST SHARING FORMULA
The District's share is 25 percent of the $27.2 million total project cost, which is $6.8 million. The additional amount budgeted for this project is for District staff time to perform overview services.

REIMBURSEMENT SCHEDULE
The District schedule is to reimburse the City $6.8 million in FY 2004.

OPERATING BUDGET IMPACTS
Operating impacts are anticipated and will be determined in the near future.

Installation of pipelines on the new Hellyer Street.

Construction on Monterey Road just in front of the Mecalf Energy Center.



Advanced Recycled Water Treatment Facility

Project Number:
911808

Sponsoring Division:
Water Supply Management

Project Manager:
Pam John

OVERVIEW

OBJECTIVES

The main objective of this project is to develop a pilot plant to advance treat recycled water. The advanced treatment is to improve the overall quality of the tertiary treated sewer effluent to a level such that its resultant use will not degrade to quality of the groundwater basin E 2.1.5. The overall objective of this effort is to ensure that "Water recycling is expanded consistent with the District's Integrated Water Resources Plan (IWRP) within Santa Clara County" in accordance with Boards Ends Policy E - 2, 2.1.6. This will be accomplished by developing partnerships with the producers of recycled water within the county to develop cost effective, advanced treatment projects for future use.

BENEFITS

- Policy E-2, Article 2.1.4 - "There are a variety of water supply sources."
- Policy E-2, Article 2.1.5 - "The groundwater basins are aggressively protected from contamination and the threat of contamination."
- Policy E-2, Article 2.1.6 - "Water recycling is expanded within Santa Clara County in partnership with the community, consistent with the District's Integrated Water Resources Plan (IWRP), reflecting its comparative cost assessments and other Board policies."
- Policy E-2, Article 2.1.6.1 - "Target 2010, water recycling accounts for five percent of total water use in Santa Clara County."
- Policy E-2, Article 2.1.6.2 - "Target 2020, water recycling accounts for ten percent of total water use in Santa Clara County."

SCOPE OF WORK

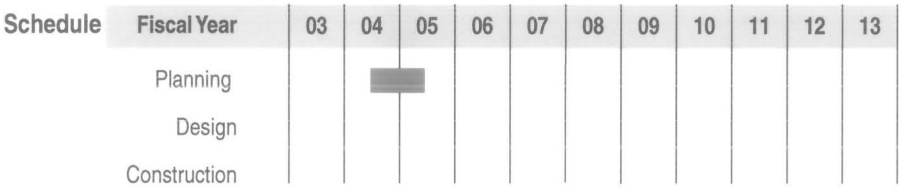
This project will provide funding for the District to:

- Conduct all activities to complete the planning phase for the Pilot Plant, including preparation of the Engineers Report.
- Prepare CEQA Draft Document for the Advanced Recycled Water Treatment Pilot Plant

SCHEDULE

INITIATION AND COMPLETION DATES

January 2004 to December 2004



COST

(in Thousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
911808	Advanced Recycled Water Treatment Facility	0	0	723	237	0	0	0	0	0	0	0	0	960

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

Undetermined.

COST SHARING FORMULA

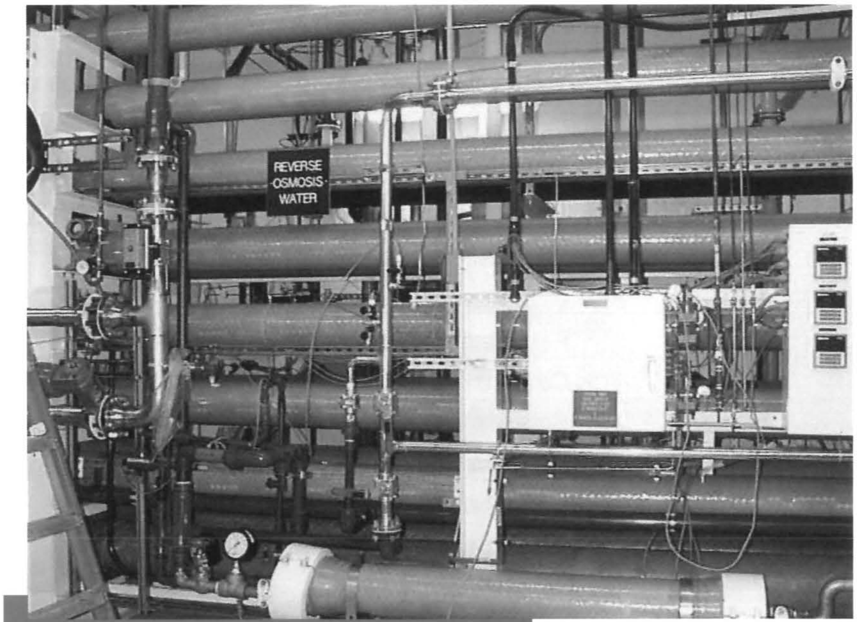
Undetermined.

REIMBURSEMENT SCHEDULE

Undetermined.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated and will be developed during the planning study.



Typical Advanced Recycled Water Pilot Plant.

San Luis Reservior Low Point Improvement

Project Number:
912107

Sponsoring Division:
Water Supply Management

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

- Increase the operational flexibility of San Luis Reservoir by increasing the effective storage.
- Ensure that San Felipe Division contractors are able to manage their annual Central Valley Project contract allocation to meet their water supply and water quality commitments.
- Provide opportunities for project related environmental improvements.

BENEFITS

- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.4 - "There are a variety of water supply sources."

SCOPE OF WORK

- Collect baseline information, including:
  - topographic survey
  - operational model; i.e. pumping, conveyance, etc.
  - environmental baseline
  - geotechnical baseline
- Complete a feasibility study to determine feasible alternatives to accomplish project objectives
- Complete the planning study, environmental process, and obtain necessary regulatory permits.

The scope, schedule and cost of the design and construction phases will be defined when the planning study is complete.

State and Federally owned San Luis Reservoir and O'Neill Forebay, source of the District's imported federal water supply.

SCHEDULE

INITIATION AND COMPLETION DATES

April 2001 to March 2005
(Planning Phase Only)

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning	■	■	■								
Design											
Construction											

COST
(in Thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
912107	San Luis Reservior Low Point Improvement	4,595	5,326	3,400	2,903	0	0	0	0	0	0	0	0	16,224

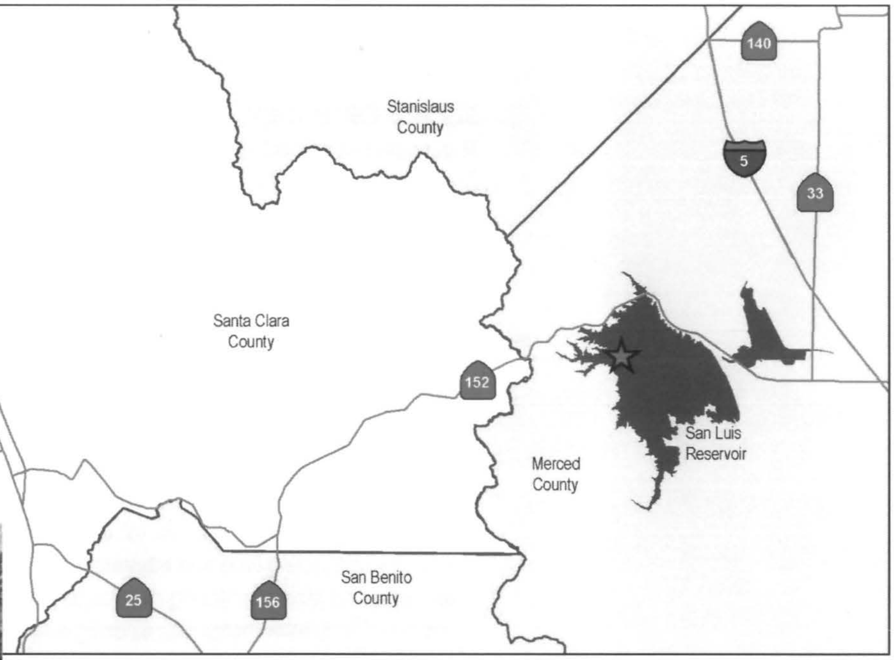
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
Amount shown in Cost Chart is the estimated total project cost.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Department of Water Resources (DWR)

COST SHARING FORMULA
DWR will pay up to $14 million of the feasibility, planning and environmental studies which are being conducted by the District.

REIMBURSEMENT SCHEDULE
It is anticipated that DWR will reimburse annual District expenses in the following year.



★ Project Location

Aerial photo of San Luis Reservoir.

ESTIMATED FUTURE REIMBURSEMENT – PROJECT

Project		Reimbursement Source	Fiscal Year 03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
912107	San Louis Reservior Low Point Improvement	Department of Water Resources	0	5,807	4,781	3,450	0	0	0	0	0	0	0	14,038

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from completing the current scope of work.

Santa Clara Tunnel Landslide

Project Number:
912203

Sponsoring Division:
Water Utility Operations

Project Manager:
Luis Ortiz

OVERVIEW

OBJECTIVES

- To repair the landslide and reactivated landslide areas, thus reducing liability for the District.
- To prevent damage to the Santa Clara Conduit resulting from the landslide.

BENEFITS

- Policy EL-7- "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides funds for planning, design and construction measures to support of the Santa Clara Conduit adjacent to the Santa Clara Tunnel' s East Portal in the area where the conduit is not founded on bedrock (approximately 10 meters in length) together with excavation and removal of the tunnel spoils pile. The project also provides funds for construction of measures to repair the reactivated landslide area and for mitigations associated with the acquisition of environmental permitting.

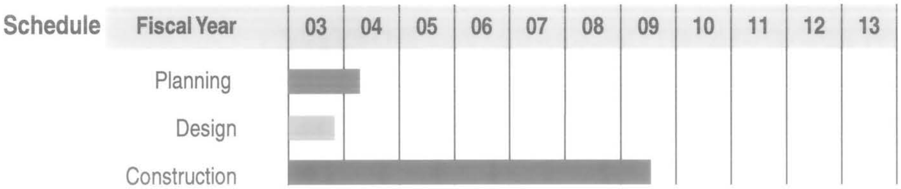
Construction Measures include:

- Installation a series of cast-in-place reinforced concrete piers next to the Santa Clara Conduit
- Removal, disposal (of approximately 30,000 cubic meters of tunnel spoil) and regrading of a major section of the landslide area; and the construction of a soil-reinforced buttress fill to provide vehicular access in front of the tunnel portal for maintenance and surface drainage.
- Implementation of near term measure for the repair of the reactivated slide including, a) installation of a drift fence to implement an exclusion zone for sensitive species, b) improving access to the slide area, c) conducting field and laboratory geotechnical investigation along with the installation of additional underground slide monitoring devices to determine extent of past damage and obtain information for the design of long term measures, d) designing and installing a 2nd pier wall, and e) implementing winterization measures to prevent water from entering the current landslide.
- Implementation of long term remedial measures measure for the repair of the reactivated slide including, a) design and construction measures to restore the slopes to their natural inclination.

SCHEDULE

INITIATION AND COMPLETION DATES

April 1998 to December 2008
(Planning, design, and construction was completed in June 2003. Onsite revegetation mitigation is expected to continue thru December 2008.)



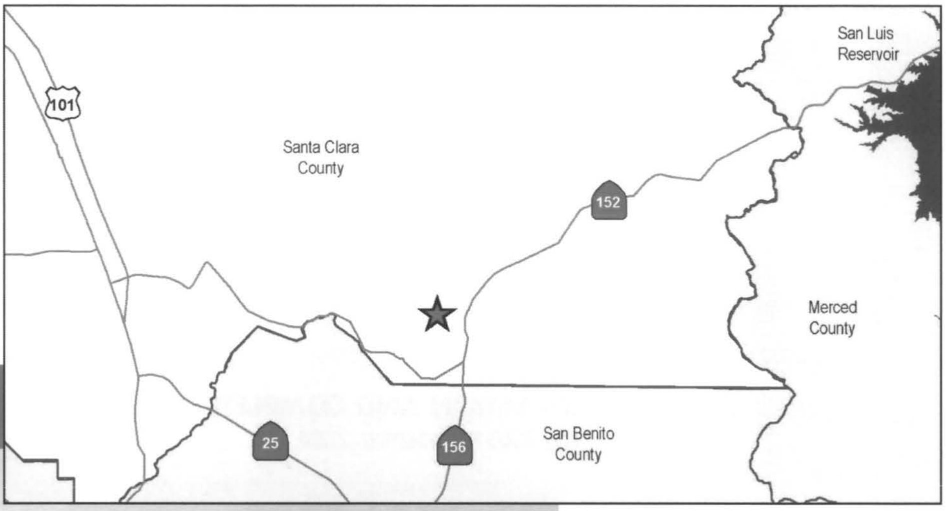
COST
(in Thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
912203	Santa Clara Tunnel Landslide	3,624	290	383	76	0	0	0	0	0	0	0	0	4,373

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from the construction of this project.



Looking Southeasterly at the reactivated landslide, north of the Santa Clara Conduit.

Vasona Pump Station Chemical Feed

Project Number:
912601

Sponsoring Division:
Water Supply Management

Project Manager:
Jeff Micko

OVERVIEW

OBJECTIVES

- Increase reliability of polymer dosing at supply to recharge ponds.
- Optimize operation of recharge ponds resulting in better recharge rates and improved water supply.

BENEFITS

- Policy EL-7, "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."
- Policy EL-7, Article 7.10 - "Further...he/she shall not spend extravagantly, inefficiently, or in ways more costly than necessary.

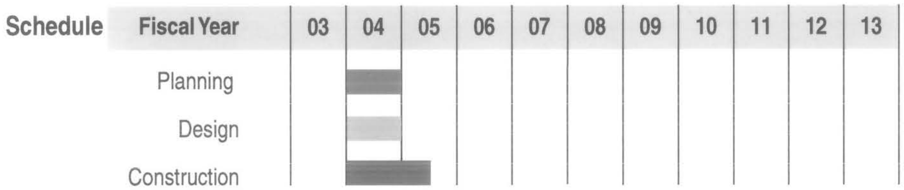
SCOPE OF WORK

Construct approximately 2500 lineal feet of 2-inch diameter PVC pipeline in unpaved roadway utilizing WSM labor and equipment. Assess possible downstream turbidimeter and PLC control of metering pump for accurate dosing of polymer and procure if recommended.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to December 2004



COST

(in Thousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
912601	Vasona Pump Station, Chemical Feed	0	0	73	32	0	0	0	0	0	0	0	0	106

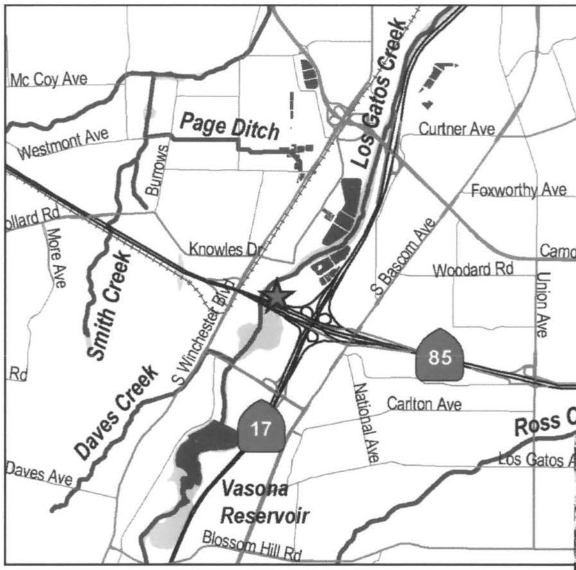
*Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated at this time.



Cationic Polymer Tanks at Vasona Pump Station

Almaden Dam Outlet Works

Project Number:
918501

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify or construct a new intake structure, capable of releasing 246 cfs of water without flushing of sediments though the outlet works
- Correct existing problems with the outlet energy dissipation structure, piping and valves.

BENEFITS

- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-7, Article 7.9 - "Fail to protect water rights, rights of way and flood control facilities."

SCOPE OF WORK

The Almaden Dam Outlet Works Project will investigate structural integrity of the existing intake tower, outlet pipe and energy dissipation structures.

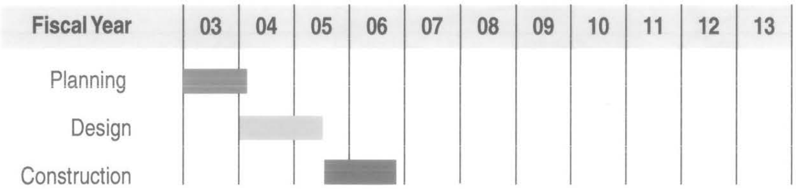
- Conduct planning study and prepare an Engineers Report and EIR for the proposed project.
- Obtain DSOD approval and required Resource Agency Permits.
- Design facilities and prepare plans and specifications for bidding.
- Construction and project close out activities.

SCHEDULE

INITIATION AND COMPLETION DATES

October 2000 to April 2006

Schedule



Looking East at the Dam Crest and Spillway.

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appproprated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
918501	Almaden Dam Outlet Works	1,457	1,124	(13)	4,525	341	0	0	0	0	0	0	0	7,434

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

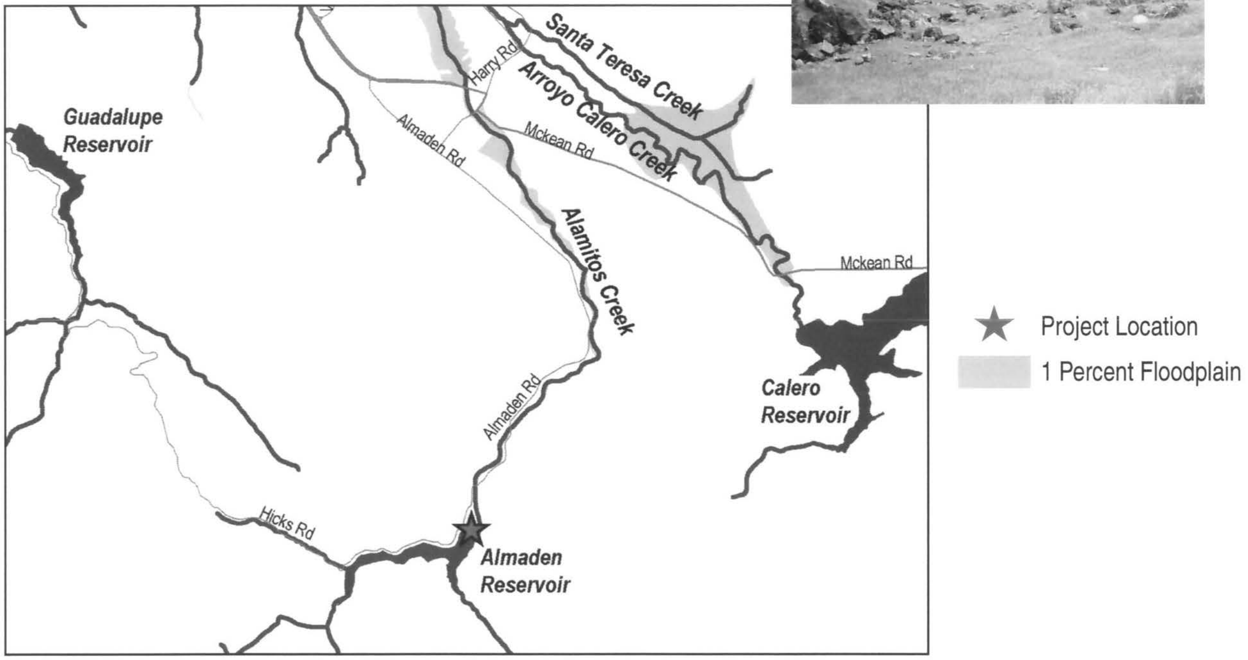
Looking East towards the outlet at the downstream side of the Dam.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.



Jacques Gulch Restoration

Project Number:
918502

Sponsoring Division:
Watershed Management

Project Manager:
David Drury

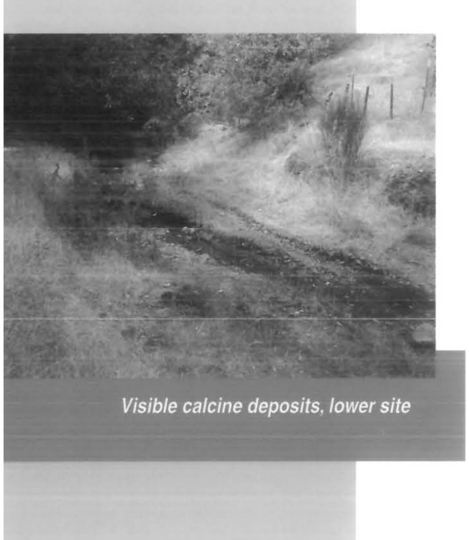
OVERVIEW

OBJECTIVES

- This project addresses threatened litigation under CERCLA from the federal and state agencies designated as "Trustees" of natural resources allegedly damaged by the release of mercury from the historic mercury mining activities at the new Almaden Mining District (now known as Almaden-Quicksilver County Park). In 2002-03, the Trustees and the Potentially Responsible Parties (PRPs), in lieu of litigation, reached agreement on a settlement package that included the implementation of this capital project by the District. The NRDA Settlement Implementation operating project (008144) also provides for coordination with and reporting to the Trustees regarding the implementation of these projects.
- The goal of this project is to restore habitat, improve and protect water quality, and conserve water supply capacity at Almaden Reservoir in compliance with a settlement of litigation provision as specified in the Consent Decree with the State and Federal Natural Resources Trustees.

BENEFITS

- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."
- Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-3, Article 3.1.1 - "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."
- Policy E-3, Article 3.1.1.1 - "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."


Visible calcine deposits, lower site

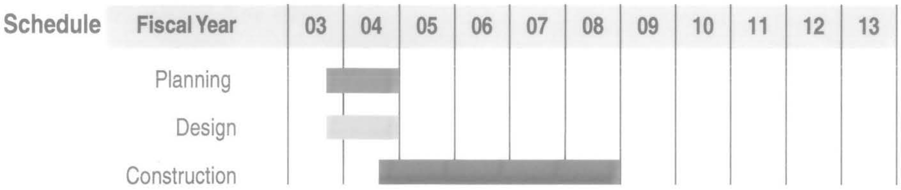
SCOPE OF WORK

- Identify calcine deposits and prepare Restoration Plan
- Remove/consolidate and/or control calcines and re-grade the project area to stable condition
- Import clean substrate for plant growth
- Vegetate the site with riparian and seasonal wetland habitat
- Monitor and maintain vegetation for three years
- Prepare annual reports on vegetation monitoring and maintenance for three years

SCHEDULE

INITIATION AND COMPLETION DATES

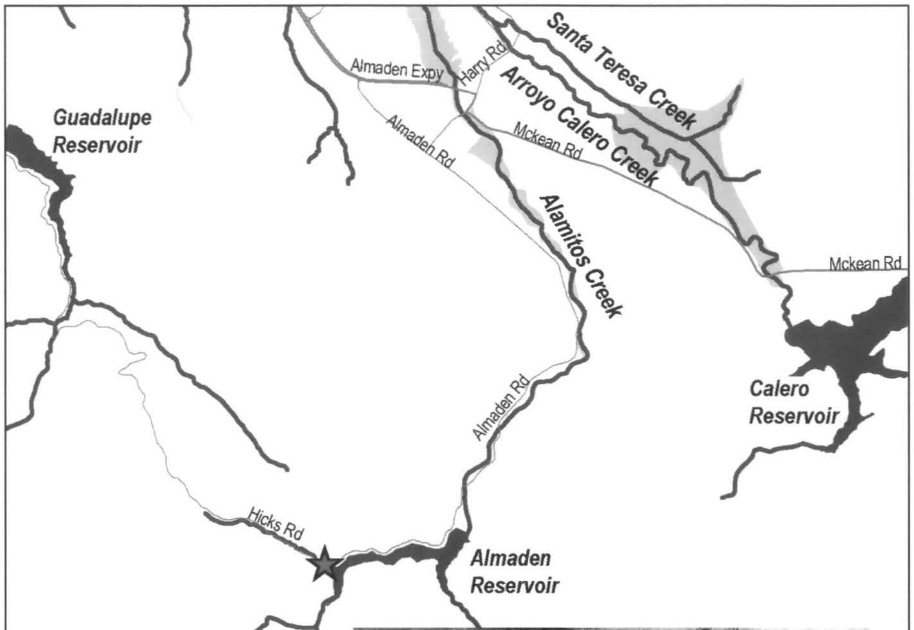
April 2003 to June 2008



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
918502	Jacques Gulch Restoration	0	0	178	936	85	85	85	0	0	0	0	0	1,368

Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Guadalupe Rubbish Disposal Co., CALFED, Santa Clara County

COST SHARING FORMULA
Reimbursement from Guadalupe Rubbish Disposal Co. is a one-time cash payment of $100,000.

Reimbursement from CALFED of $300,000 for construction costs related to revegetation.

Waiving of County Mitigation Fee ($25,000 avoided cost), perpetual management of onsite disposal area ($600,000 avoided cost)

REIMBURSEMENT SCHEDULE
$100,000 cash payment from Guadalupe Rubbish Disposal Co. upon completion of Settlement Consent Decree, FY 2004.

$50,000 of the $300,000 from CALFED will be paid in FY 2004. The remaining $250,000 will be paid in FY 2005, upon completion of construction.

Visible calcine deposits, lower site

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		**Reimbursement Source**	**Fiscal Year**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13-16**	**Est. Total**
918502	Jacques Gulch Restoration	CALFED		0	50	250	0	0	0	0	0	0	0	0	300
		Guadalupe Rubbish Disposal Co.		0	100	0	0	0	0	0	0	0	0	0	100
Total				0	150	250	0	0	0	0	0	0	0	0	400

OPERATING BUDGET IMPACTS
Operating budget impacts are identified and budgeted in Project 008144.

Anderson Reservoir Bank Erosion

Project Number:
918684

Sponsoring Division:
Watershed Utility Operations

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

- To avoid costly future repairs with preventative maintenance and asset management.

BENEFITS

- Policy E-2, Article 2.1. - "There is a reliable supply of healthy clean drinking water."
- Policy E-2, Article 2.2.2.1. - "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Plan, design and construct bank erosion repair and rehabilitation at Anderson Reservoir.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2006

Schedule

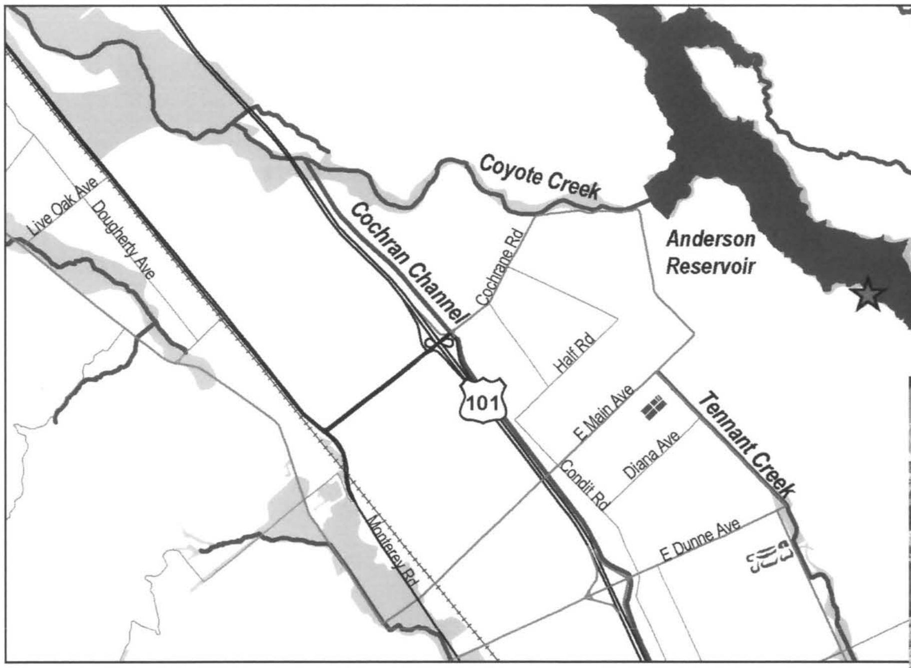
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design			▨								
Construction				■							

Tree root system being undermined at Holiday Court gazebo.

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproprlated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
918684	Anderson Reservior Bank Erosion	0	0	197	329	3,666	0	0	0	0	0	0	0	4,191

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location

▨ 1 Percent Floodplain

Trees and structures along Holiday Court.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

End of Manzanita Court vertical slope, high water contact.

Fellows Dike Rehabilitation

Project Number:
918703

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Implement improvements to Fellows Dike to obtain DSOD certification for the Dike, and allow the District to safely impound water against the dike
- Improve storm water sump pump operation and discharges to Calero Reservoir
- Evaluate water quality of storm runoff from the Ranch and determine required treatment facilities

BENEFITS

- Policy E-2, Article 2.2 - "There is a reduced potential for flood damages."
- Policy EL-7, "The CEO/GM shall not allow corporate assets to be unprotected inadequately maintained, or unnecessarily risked."

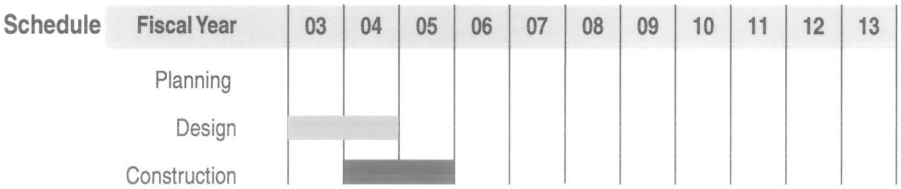
SCOPE OF WORK

- The planning phase for this project includes a decision document (to be approved by the CEO), a Negative Declaration as the appropriate CEQA document, and environmental permits.
- The design phase for this project includes final design, and the prepartion of the plans, specifications, and estimate for bidding.
- The construction phase of this project includes construction administration, inspection and engineering services.

SCHEDULE

INITIATION AND COMPLETION DATES

October 2000 to June 2005



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
918703	Fellows Dike Rehabilitation	905	653	4,217	814	0	0	0	0	0	0	0	0	6,588

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

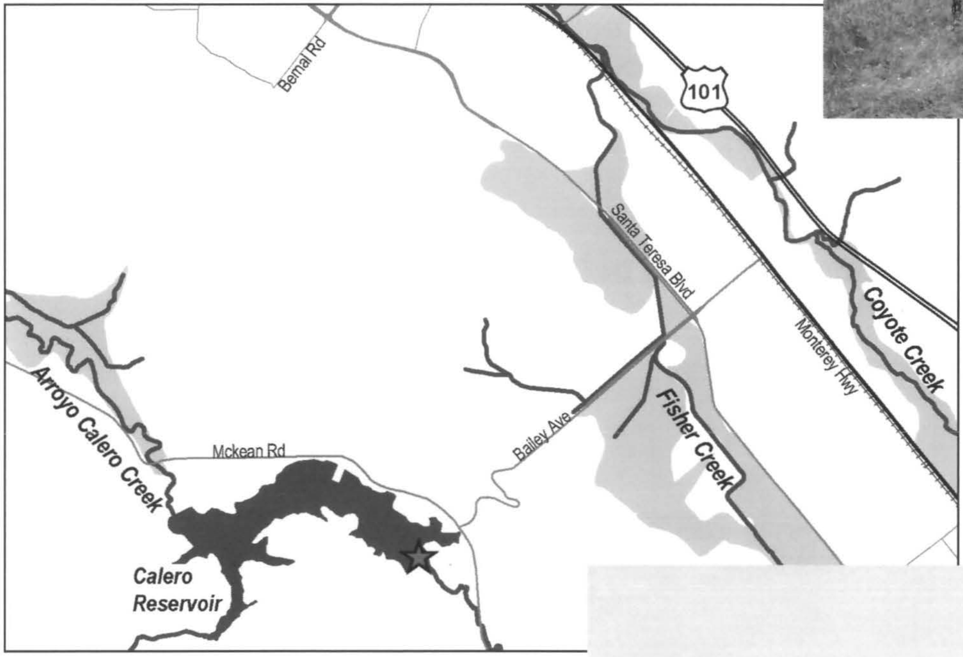
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

View of the crest of Fellows Dike looking northeast.



★ Project Location

▨ 1 Percent Floodplain

View of Fellows Dike from Calero Reservoir. The historic Bailey-Fellows House can be seen in the background.

Lenihan Dam
Outlet Modifications

Project Number:
919005

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Implement a long-term solution to correct the outlet pipe collapse problems.
- Rescind DSOD restrictions that limit release flows to 70 cfs.

BENEFITS

- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy E-7, Article 7.9 - "Fail to protect water rights, rights of way and flood control facilities."

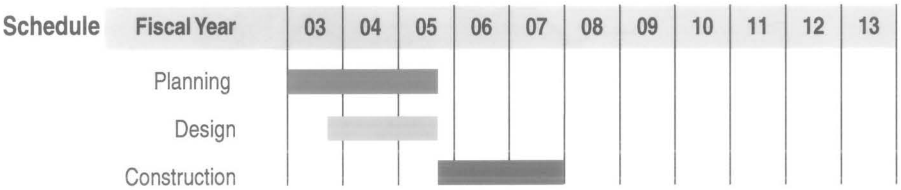
SCOPE OF WORK

- Conduct planning study and prepare an Engineers Report and EIR for the proposed project.
- Obtain DSOD approval and required Resource Agency Permits.
- Design facilities and prepare plans and specifications for bidding.
- Construction and project close out activities.

SCHEDULE

INITIATION AND COMPLETION DATES

October 2000 to June 2007



COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
919005	Lenihan Dam Outlet Modifications	2,382	971	1,835	17,457	440	360	0	0	0	0	0	0	23,445

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

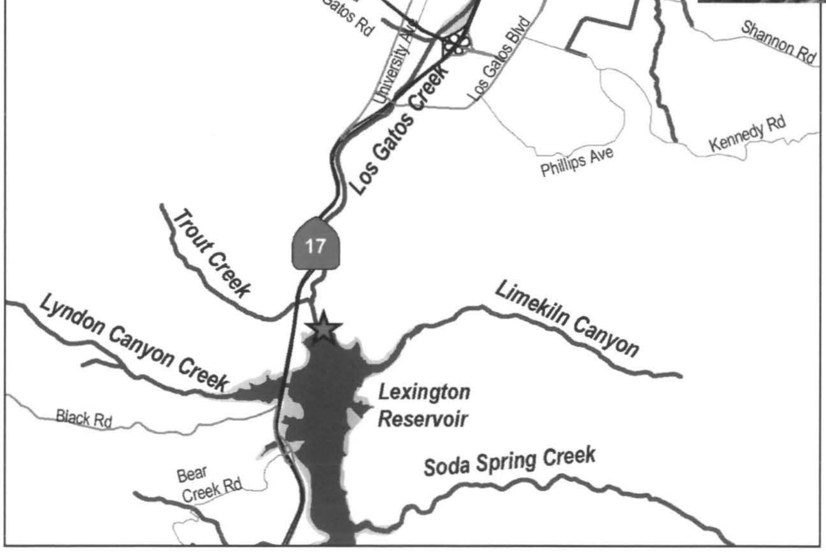
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are expected to be lower once construction is completed.

Aerial view of Lenihan Dam looking south.



★ Project Location

▨ 1 Percent Floodplain

Pacheco Pumping Plant ASD Replace

Project Number:
919501

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Replacement of all twelve ASD's and output flow metering at Pacheco Pumping Plant
- Possible purchase of spare pump for plant reliability during project

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

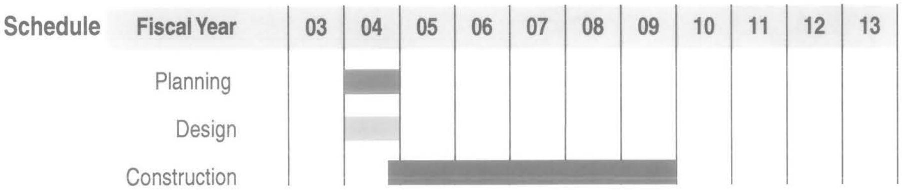
This project will reduce risk of failure of this critical pumping plant through replacement of obsolete and unsupported ASD's. Secondarily, the project will assess the problems with the present plant output flow measuring system and replace if prudent. Thirdly, the project will consider the purchase of a spare pump to ensure plant reliability during the ASD replacement process. Lastly, the project will assess the need to use constant speed or larger size drives/pumps to address the future additional demands of Pajaro Valley.

- Prepare Planning Study
- Obtain Board approvals and permits
- Finalize agreements (MOUs) with USBR and San Benito County
- Prepare plans and specifications
- Bid Bid work
- Manage construction

SCHEDULE

INITIATION AND COMPLETION DATES

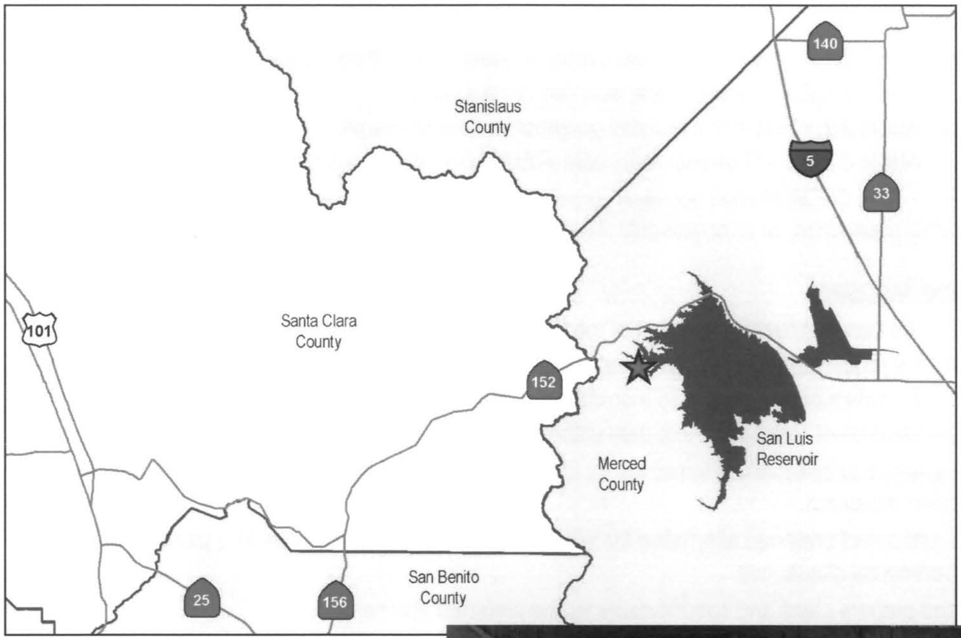
July 2003 to June 2009



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
919501	Pacheco Pumping Plant ASD Replace	0	0	653	1,843	1,618	1,470	0	0	0	0	0	0	7,060

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
The Pacheco Plant is owned by the Bureau of Reclamation and supported by SCVWD. Reimbursement from USBR and cost sharing with San Benito is anticipated.

COST SHARING FORMULA
To be determined

REIMBURSEMENT SCHEDULE
To be determined

OPERATING BUDGET IMPACTS
Operating budget impacts will be determined during the planning phase.

ASD drive gallery

Guadalupe Dam Outlet Works Rehabilitation

Project Number:
91C070

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Preserve the operational function of the Guadalupe Dam outlet works.
- Comply with Division of Safety of Dams (DSOD) requirements.

BENEFITS

- Policy E-2, Article 2.1. - "There is a reliable supply of healthy clean drinking water."
- Policy E-2, Article 2.2.2.3. - "Groundwater supplies are sustained."
- Policy E-2, Article 2.2. - "There is a reduced potential for flood damages."
- Policy E-2, Article 2.2.2.2. - "There is clean, safe water in our creeks and bays."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

- Investigate the current physical condition of the Guadalupe Dam Outlet Works.
- Determine the required measures and perform work needed to meet current DSOD standards.
- Determine the extent of wear to the 36-inch diameter steel liner and integrity of the concrete encasement.
- Determine intrusion of outlet flows into dam embankment.
- Conduct analysis to determine alternatives for improved upstream valve operations and appropriate rehabilitation measures.
- Evaluate and select preferred alternative for rehabilitation, including preparation of a planning study and environmental clearances.
- Design and prepare plans and specifications for the preferred alternative.
- Construct the approved project.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2012

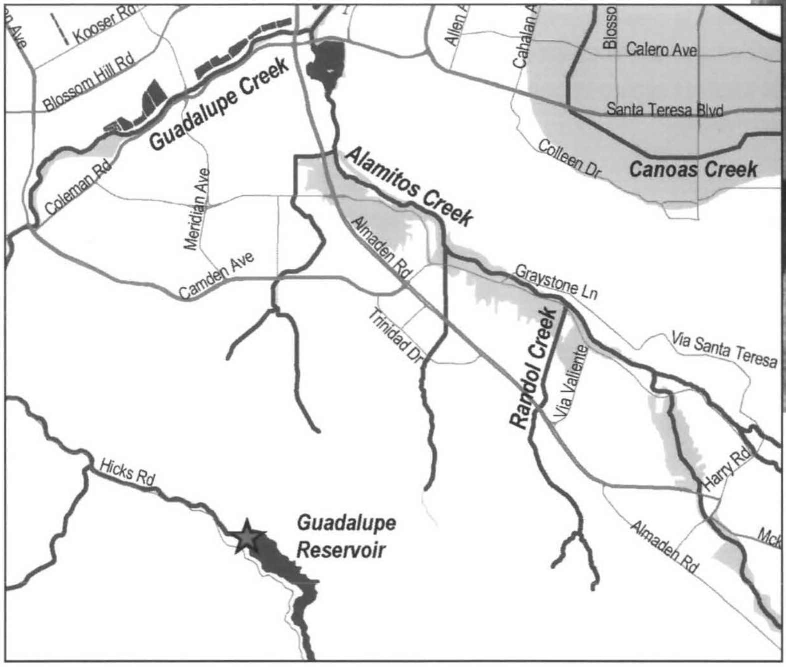
Schedule

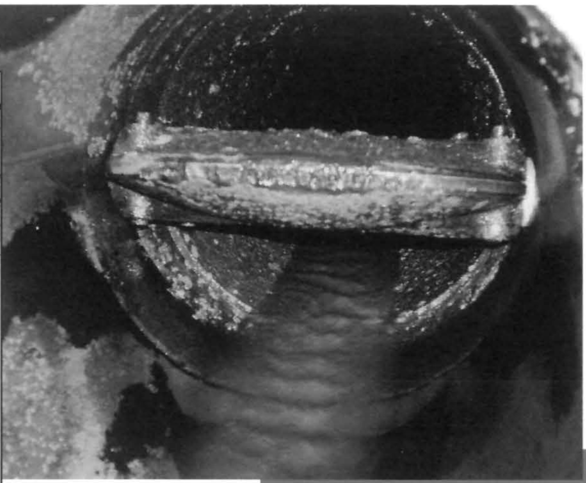
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							■				
Design								■	■		
Construction										■	

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C070	Guadalupe Dam Outlet Works Rehab	0	0	0	0	0	0	0	239	550	600	3,480	0	4,869

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.





Existing condition of the outlet pipe.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

Existing condition of the outlet pipe.

Calero Dam
Outlet Works Rehabilitation

Project Number:
91C071

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Preserve the operational function of the Calero Dam Outlet Works.
- Comply with Division of Safety of Dams (DSOD) requirements.

BENEFITS

- Policy E-2, Article 2.1. - "There is a reliable supply of healthy clean drinking water."
- Policy E-2, Article 2.2.2.2. - "There is clean, safe water in our creeks and bays."
- Policy E-2, Article 2.2.2.3. - "Groundwater supplies are sustained."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

- Determine the extent of sedimentation buildup around the intake structure.
- Conduct sediment analysis to determine mercury concentration and other contaminants
- Determine the integrity of the 42" sluice gate.
- Conduct reservoir drawdown analysis to determine feasibility of 30" downstream valve removal.
- Conduct analysis to determine appropriate rehabilitation measures on intake structure, possible sediment removal or extension of the intake.
- Evaluate and select preferred alternative for rehabilitation, including preparation of a planning study and environmental clearances.
- Prepare contract documents and conduct rehabilitation.

Installation of fish screens on Calero intake structure

SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2012

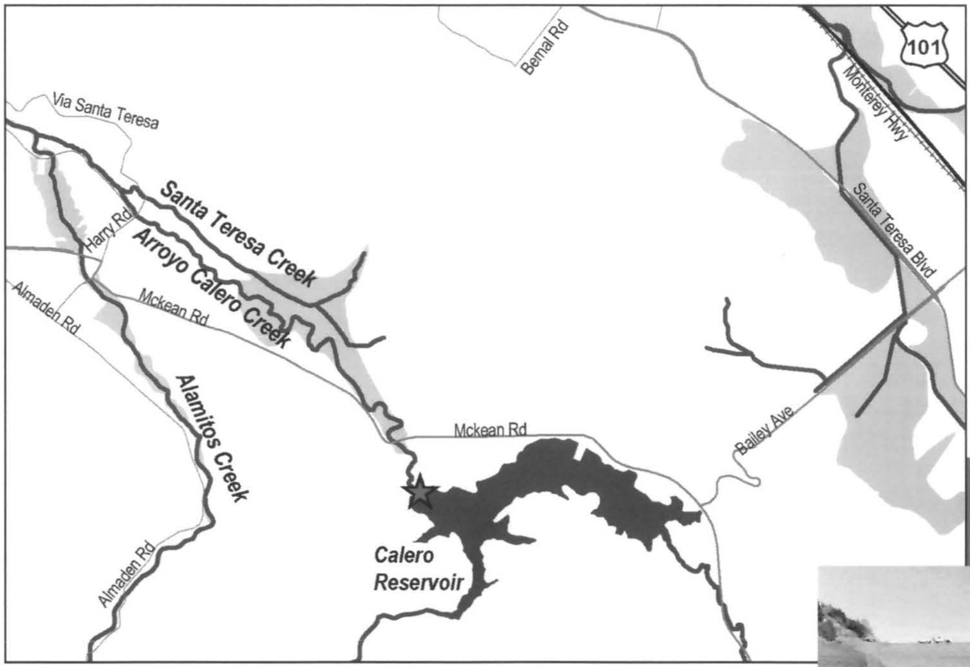
Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning							▨				
	Design								▨	▨		
	Construction										▨	

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C071	Calero Dam Outlet Works Rehab	0	0	0	0	0	0	0	139	450	330	2,552	0	3,471

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Removal of sediment to expose Calero intake structure.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

Calero Dam and Reservior

Pacheco Fiber Optic Cable Replacement

Project Number:
91C104

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Replace fiber optic line between pumping plant and west tunnel portal.
- Ensure reliable communications with Pacheco Pumping Plant

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare Planning Study; obtain permits and Board approvals; prepare plans and specifications; bid work; manage construction; closeout project.

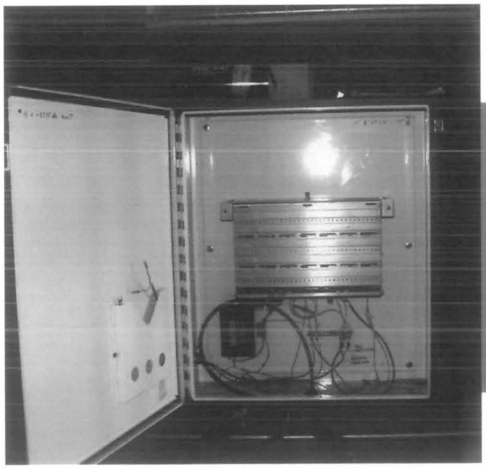
SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2011

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							▨				
Design								▨			
Construction									▨		

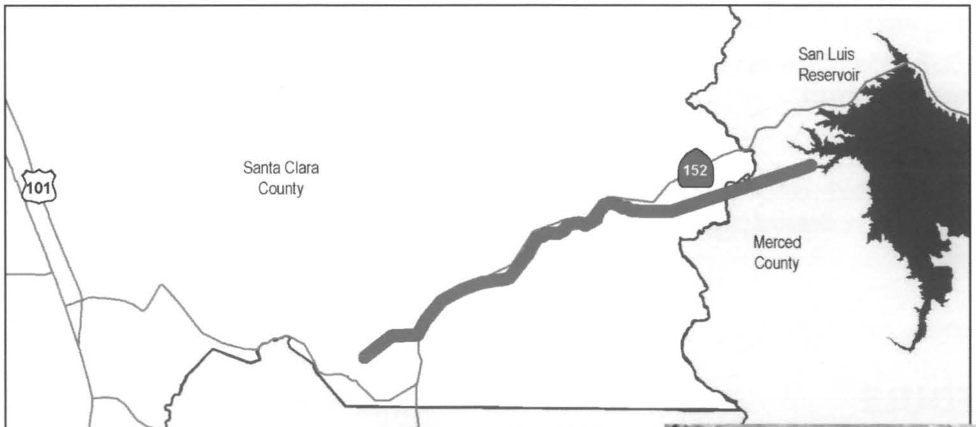


This communication Channel Unit is located at the west tunnel portal. This obsolete component is a fiber-to-copper converter that links the aerial fiber cable to the buried copper cable that terminates at the Rinconada Control Center.

COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C104	Pacheco FIber Optic Cable Replacement	0	0	0	0	0	0	0	240	162	675	0	0	1,077

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Fiber optic communication cable leading to the Pacheco Pumping Plant. Fiber cable is the lower aerial cable that extends from the pumping plant to the west tunnel portal at west-end of the five-mile Pacheco Tunnel.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

San Felipe 2002 Inspection Follow-up

Project Number:
91C105

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Repair, replace and install new features to major transmission line.
- Project will reduce risk of failure of critical transmission line.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare Planning Study; obtain permits and Board approvals; prepare plans and specifications; bid work; manage construction; closeout project.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2011

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							▨				
Design								▨			
Construction									▨		

Caption: Pacheco Pumping Plant at the beginning of the San Felipe Pipeline

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C105	San Felipe 2002 Inspection Follow–up	0	0	0	0	0	0	0	409	353	6,173	0	0	6,935

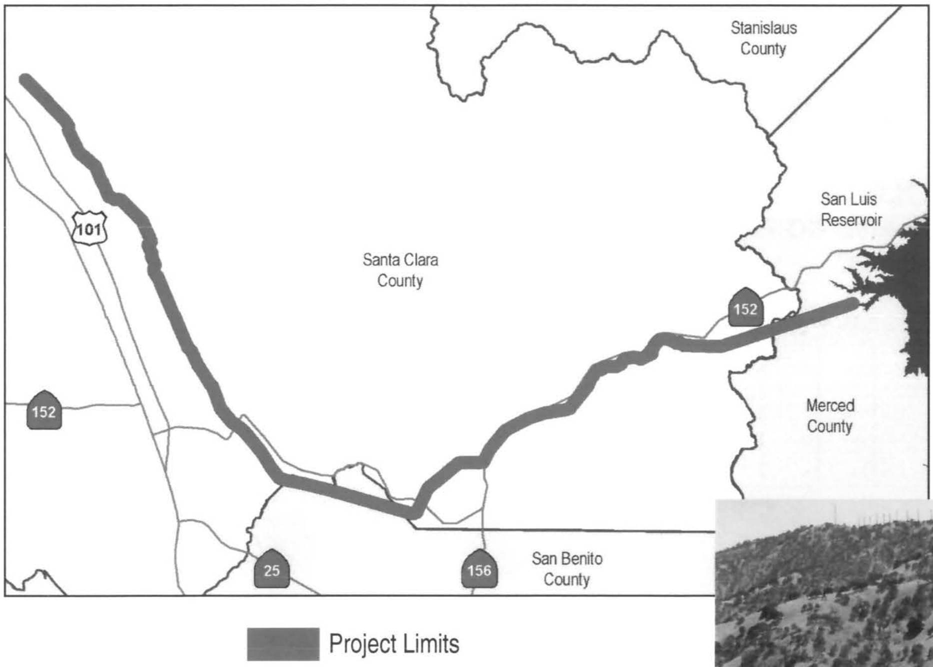
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes.

PARTNERING AGENCIES
Bureau of Reclamation and San Benito County.

COST SHARING FORMULA
Presently being negotiated with Bureau of Reclamation.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



Pacheco Pumping Plant at the beginning of the San Felipe Pipeline.

South County Pipeline Right of Way

Project Number:
91C106

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Acquire Right of Way and construct improvements to provide unlimited access to District facilities.
- Reduce conflicts with local owners and improve response time for emergency repairs or operations.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare Planning Study; obtain permits and Board approvals; prepare plans and specifications; bid work; manage construction; closeout project.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2011

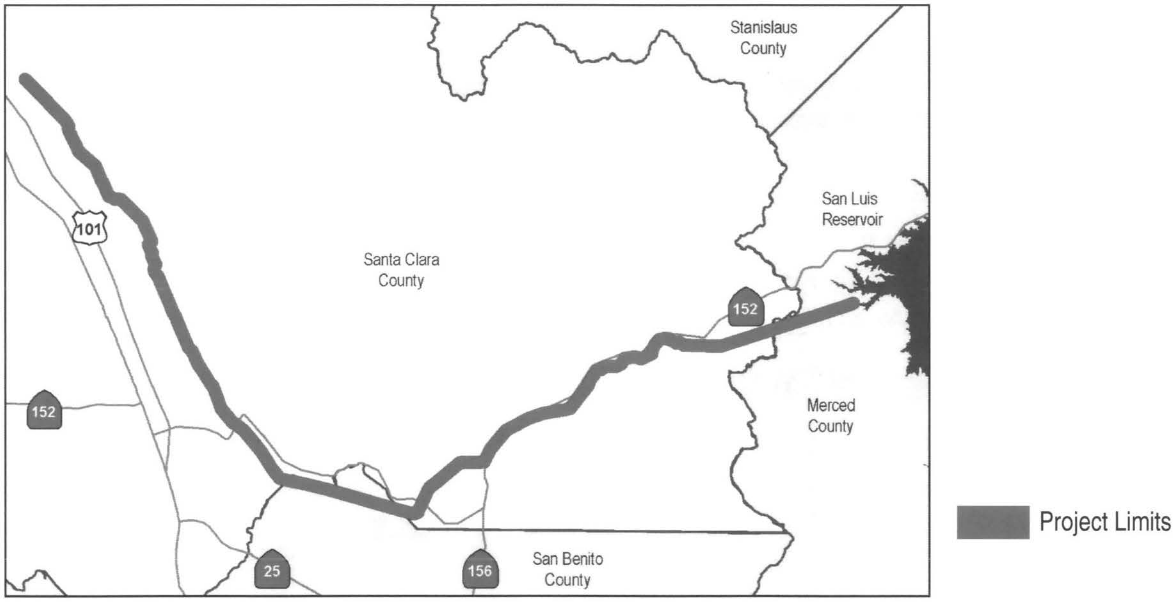
Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							■				
Design								■			
Construction									■		

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C106	South County Pipeline Right of Way	0	0	0	0	0	0	0	230	177	1,235	0	0	1,642

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Bureau of Reclamation and San Benito County

COST SHARING FORMULA
Presently being negotiated with Bureau of Reclamation.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

Pacheco Conduit Bifurcation Dewater

Project Number:
91C107

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Resolve operation problems related to shutdowns on South County and San Benito County transmission lines.
- Reduce down time for emergency and routine repairs and operations, reduce cost.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."

SCOPE OF WORK

Prepare Planning Study; obtain permits and Board approvals; prepare plans and specifications; bid work; manage construction; closeout project.

SCHEDULE

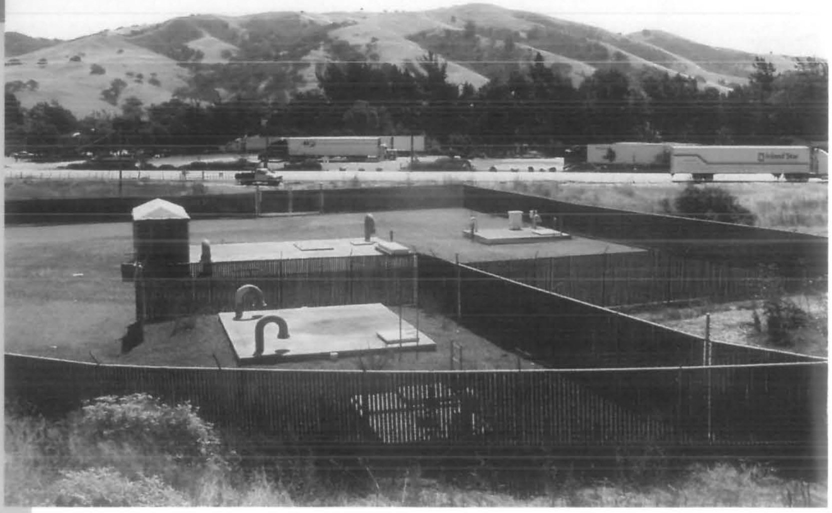
INITIATION AND COMPLETION DATES

July 2008 to June 2011

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							▨				
Design								▨			
Construction									▨		

The Pacheco Conduit Bifurcation Structure across from Casa De Fruita on Highway 152.



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C107	Pacheco Conduit Bifurcation Dewater	0	0	0	0	0	0	0	284	187	1,487	0	0	1,958

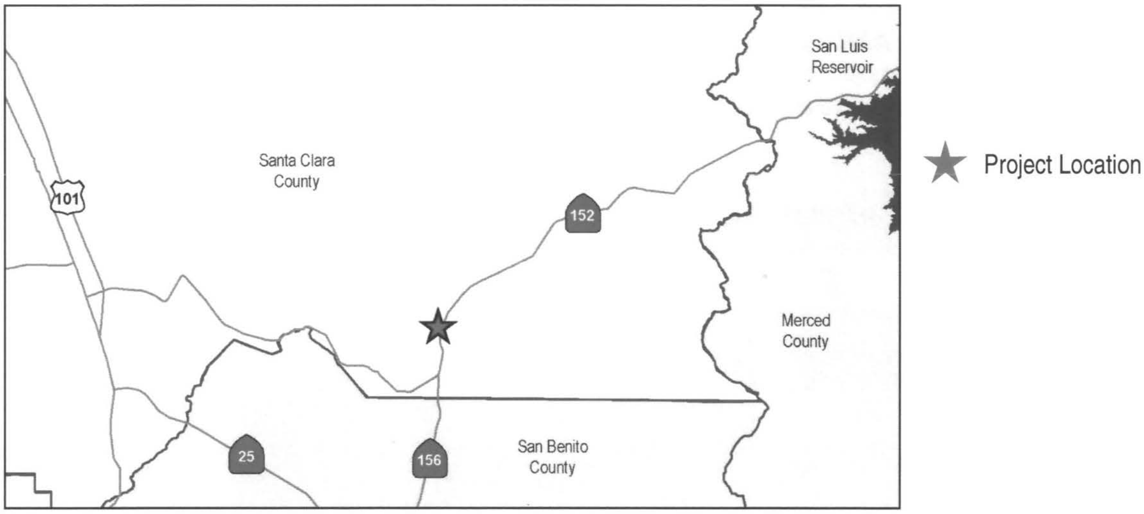
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Bureau of Reclamation and San Benito County.

COST SHARING FORMULA
Presently being negotiated with Bureau of Reclamation.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



Water Utility Asset Management

Project Number:
91C124

Sponsoring Division:
Water Utility Operations

Project Manager:
Alan Zeisbrich

OVERVIEW

OBJECTIVES

To lower the cost of asset ownership and improve system reliability by establishing a life-cycle preventative and corrective maintenance schedule for each of the Water Utility's assets.

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked."

SCOPE OF WORK

In January 2002, the District embarked on an effort to develop a program plan for identifying long-term capital rehabilitation and replacement needs for its water utility assets. This asset management program plan will identify needed capital improvement projects similar in nature to the Almaden Dam Outlet, Lenihan Dam Outlet Modification, Almaden Calero Canal, and Rinconada Reservoir Roof Rehabilitation projects. High-level cost estimates are presented here for long-term financial planning purposes.

SCHEDULE

INITIATION AND COMPLETION DATES

An asset management program plan is estimated to be completed by Setptember 2003. Schedule for projects identified in the program plan will be determined in the future.

This project addresses long–term preventative maintenance of District infrastructure such as the radial gates on Coyote Creek near Metcalf Road.

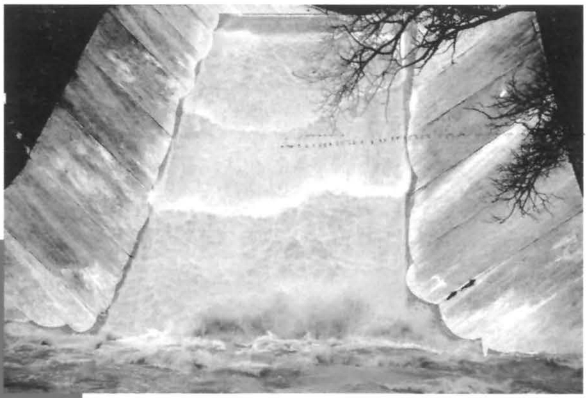
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
91C124	WUE Asset Management	0	0	0	0	0	10,000	15,000	15,000	20,000	20,000	20,000	20,000	120,000

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating Budget Impacts will be determined in the future.

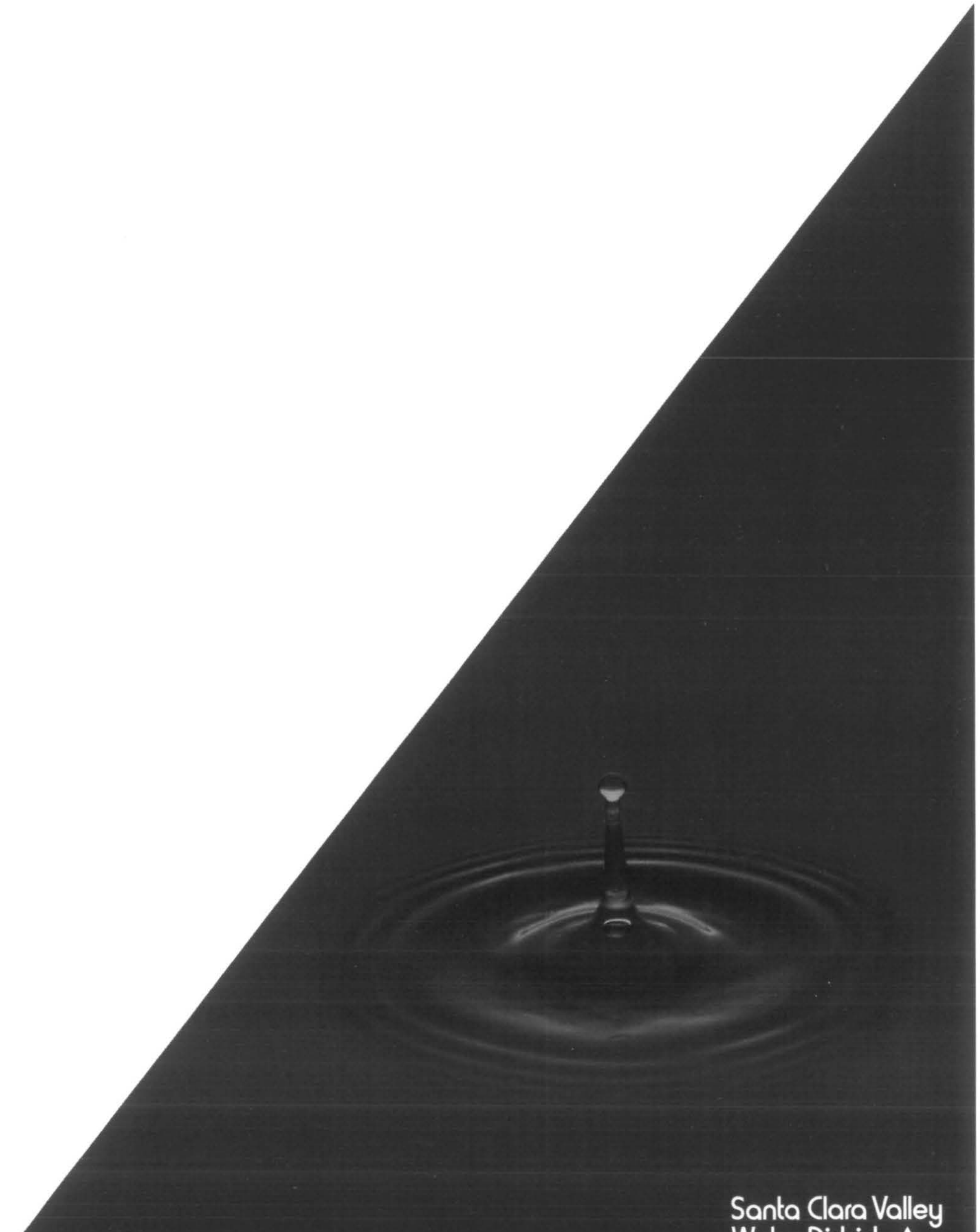


Stevens Creek Spillway

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Raw Water Transmission & Distribution Cost Center



Santa Clara Valley
Water District

Raw Water T & D

RAW WATER TRANSMISSION & DISTRIBUTION

COST CENTER OVERVIEW

The Raw Water Transmission and Distribution Cost Center contains all the anticipated expenditures, including capital investments, related to the distribution of raw water to the District's groundwater recharge facilities and three water treatment plants. The infrastructure includes raw water pipelines, turnouts, canals, percolation ponds and the use of creeks. The major functions include surface water transportation and delivery, groundwater recharge management, and stream and watershed management.

CAPITAL IMPROVEMENT PROGRAM

As stated in the Program Overview, the Utility plans to conduct comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for raw water transmission and distribution infrastructures is complete.

MAJOR PROJECTS – COMPLETED

- Replacement of Radial Gates at Coyote Percolation Dam
- Almaden Valley Pipeline Cathodic Protection System
- Guadalupe River Fish Ladder
- Coyote Canal Diversion Fish Screen
- Coyote Percolation Dam Fish Ladder
- Penitencia Fish Facilities
- Masson Dam Fish Ladder/Screen
- Central Pipeline Protection at Route 87
- Central Pipeline Modifications at Capital Avenue and Berryessa Road

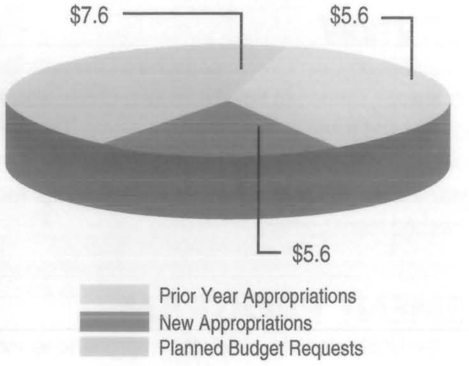
MAJOR PROJECTS – CURRENT

- Vasona Addition and ADA Modifications
- Raw Water Control System
- Central Pipeline Rehabilitation
- Kirk Ditch
- Almaden Calero Canal Rehabilitation
- San Pedro Recharge Facility

MAJOR PROJECTS – FUTURE

- Valve 906 Low-Flow Bypass
- Vasona Pumping Plant Long Term

Raw Water Transmission & Distribution Cost Center
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013
Total: $19.1 million



FINANCIAL OVERVIEW

The estimated ten-year capital investments, to complete current and future capital projects includes appropriations by the Board of Directors in previous years, new appropriations for 2003, and planned budget requests.

COST

Current & Future Capital Projects (in Thousands $, present worth)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Projected Funding Needs								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
922502	Central PL Protect, at 87	713	59	0	0	0	0	0	0	0	0	0	0	773
922503	Central PL Mods, Capital & Berryessa	241	42	0	0	0	0	0	0	0	0	0	0	82
922583	Central Pipeline Rehab	0	0	102	497	2,332	0	0	0	0	0	0	0	2,930
922607	Vasona Addition & ADA Mods	386	329	216	0	0	0	0	0	0	0	0	0	931
922608	Vasona Pumping Plant Elec	0	0	197	436	0	0	0	0	0	0	0	0	632
923702	Raw Water Control System	5,035	319	959	27	0	0	0	0	0	0	0	0	6,340
923704	Stream Flow Alert Upgrade	0	0	87	334	0	0	0	0	0	0	0	0	421
925302	Kirk Ditch	269	360	974	72	0	0	0	0	0	0	0	0	1,675
927201	Almaden-Calero Canal Rehab	1,042	3,645	0	1,618	270	0	0	0	0	0	0	0	6,575
927401	San Pedro Recharge Facility	4,093	861	13	39	0	155	313	22	22	0	0	0	5,518
92C073	Valve 906 Low-Flow Bypass	0	0	0	0	0	106	20	0	0	0	0	0	126
92C123	Vasona Pumping Plant Long Term	0	0	0	0	0	279	157	2,967	0	0	0	0	3,403
	Total	11,779	5,616	2,547	3,022	2,602	540	490	2,989	22	0	0	0	29,607
	Total (with inflation)	11,779	5,616	2,547	3,022	2,843	608	568	3,569	27	0	0	0	30,579
	Capital Investment		5,616	5,569		7,615								18,800

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

ESTIMATED REIMBURSEMENT FROM PARTNERSHIPS

Project	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
922503	Central PL Modifications, Capital & Berryessa	192	0	0	0	0	0	0	0	0	0	0	192

A brief description of changes and source of reimbursement can be found on project pages.

Central Pipeline Protection
at Route 87

Project Number:
922502

Sponsoring Division:
Water Utility Operations

Project Manager:
Gary Kawaoka

OVERVIEW

OBJECTIVES

Accommodate Caltrans Route 87 construction while maintaining the District's water supply and use of the Central Pipeline.

BENEFITS

Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

This project provides for the design and construction of the relocation of Central Pipeline at Route 87, to be relocated at Mission Street and Guadalupe Parkway. This will accommodate construction of Highway 87.

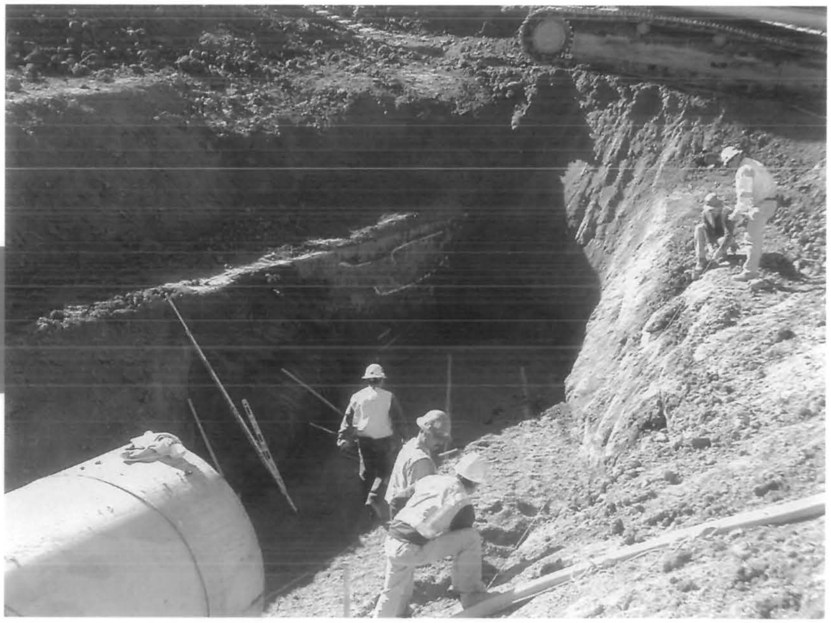
SCHEDULE

INITIATION AND COMPLETION DATES

August 1997 to November 2002

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	■										



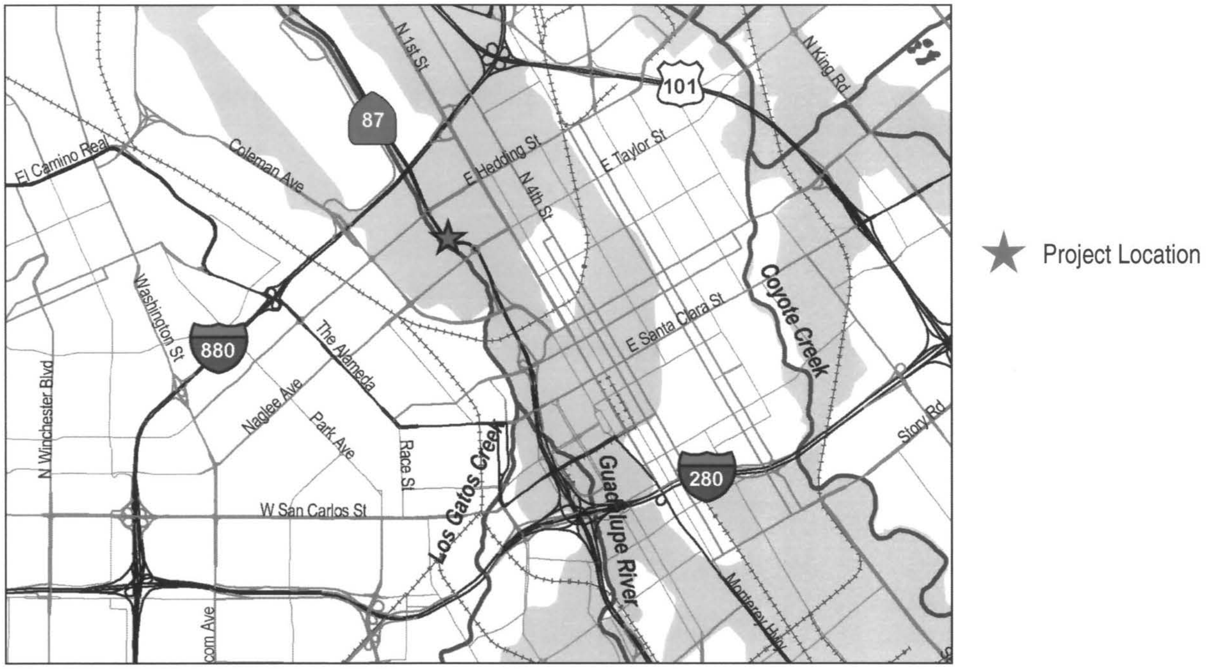
Looking westerly at the installation of Central Pipeline near Guadalupe River.

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
922502	Central Pipeline Protection at 87	713	59	0	0	0	0	0	0	0	0	0	0	773

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.



POTENTIAL COST SHARING

Yes

PARTNERING AGENCIES

Caltrans and the District.

COST SHARING FORMULA

The District's share is approximately $353,000, or 31 percent of total project cost. CALTRANS' share is approximately $831,000, or 69 percent of total project cost. The total project cost is approximately $1,138,000.

The District performed the design at a cost of $307,442. Caltrans share of the design @ 69 percent was $212,135.

CALTRANS performed the inspection and construction at a cost of $830,990. The District's share of construction costs at 31 percent was $257,607.

REIMBURSEMENT SCHEDULE

CALTRANS reimbursed the District $212,135 for their share of the design cot in September 2001. The District paid CALTRANS $257,607 in October 2002 for the District's share of the construction cost.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

Central Pipeline Modifications
at Capital Avenue & Berryessa Road

Project Number:
922503

Sponsoring Division:
Water Utility Operations

Project Manager:
Gary Kawaoka

OVERVIEW

OBJECTIVES

Provide adequate access to the Central Pipeline for routine maintenance and inspection.

BENEFITS

Policy E-2, Article 2.1 - "There is a reliable supply of healthy clean drinking water."

SCOPE OF WORK

The scope of work includes planning, design and construction of a manhole and in-line valve as required to meet the project objectives.

SCHEDULE

INITIATION AND COMPLETION DATES

January 2001 to June 2002

Proposed location of new vault and manhole located on the Central Pipeline at the intersection of Capital Avenue and Berryessa Road, looking easterly.

COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
922503	Central Pipeline Mods, Capital & Berryessa	241	42	0	0	0	0	0	0	0	0	0	0	282

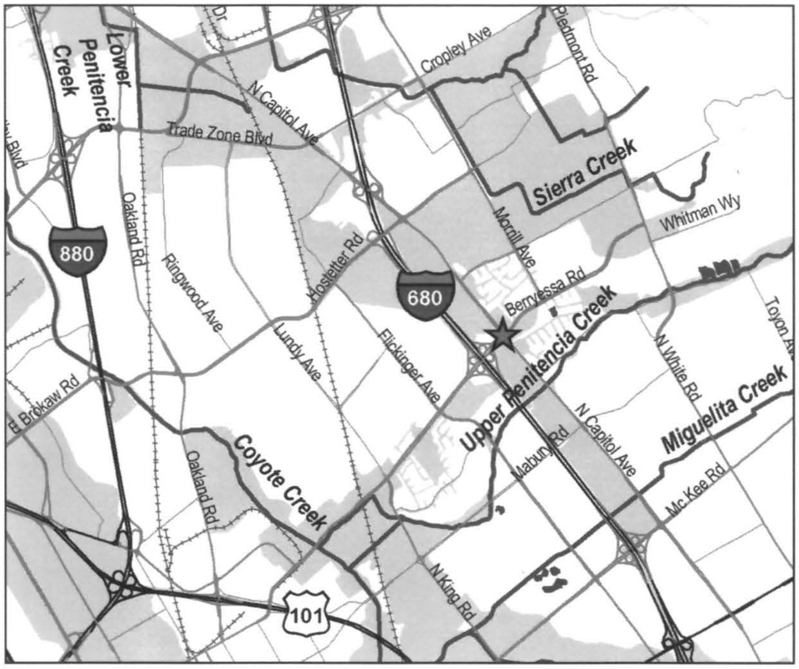
* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.
Amount shown in the Cost Chart includes the District's share and VTA's portion of the total project costs.

POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Santa Clara Valley Transportation Authority (VTA) and the District

COST SHARING FORMULA
The District is responsible for work on the in-line valve, with VTA reimbursing the cost of relocating the manhole. VTA was invoiced in February 2003 for approximately $192,000.

REIMBURSEMENT SCHEDULE
The district received payment from VTA of $192,459 in February 2003.



★ Project Location

▨ 1 Percent Floodplain

ESTIMATED FUTURE REIMBURSEMENT - PROJECT

Project		Reimbursement Source	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13-16	Est. Total
922503	Central Pipeline Modifications, Capital & Berryessa	Valley Transportation Authority		192	0	0	0	0	0	0	0	0	0	0	192

OPERATING BUDGET IMPACTS
No operating impacts are anticipated from the construction of this project.

Central Pipeline Rehabilitation

Project Number:
922583

Sponsoring Division:
Water Utility Operations

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

- Review current repair methods used by other utilities.
- Reduce risk of failure for critical raw water transmission line.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

District staff has performed internal inspections of the 35 year old Central Pipeline and has identified 22 pipe sections that are vulnerable to failure. Project will include planning, design and construction of repairs or replacements.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2006

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design			■								
Construction				■							

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
922583	Central Pipeline Rehabilitation	0	0	102	497	2,332	0	0	0	0	0	0	0	2,930

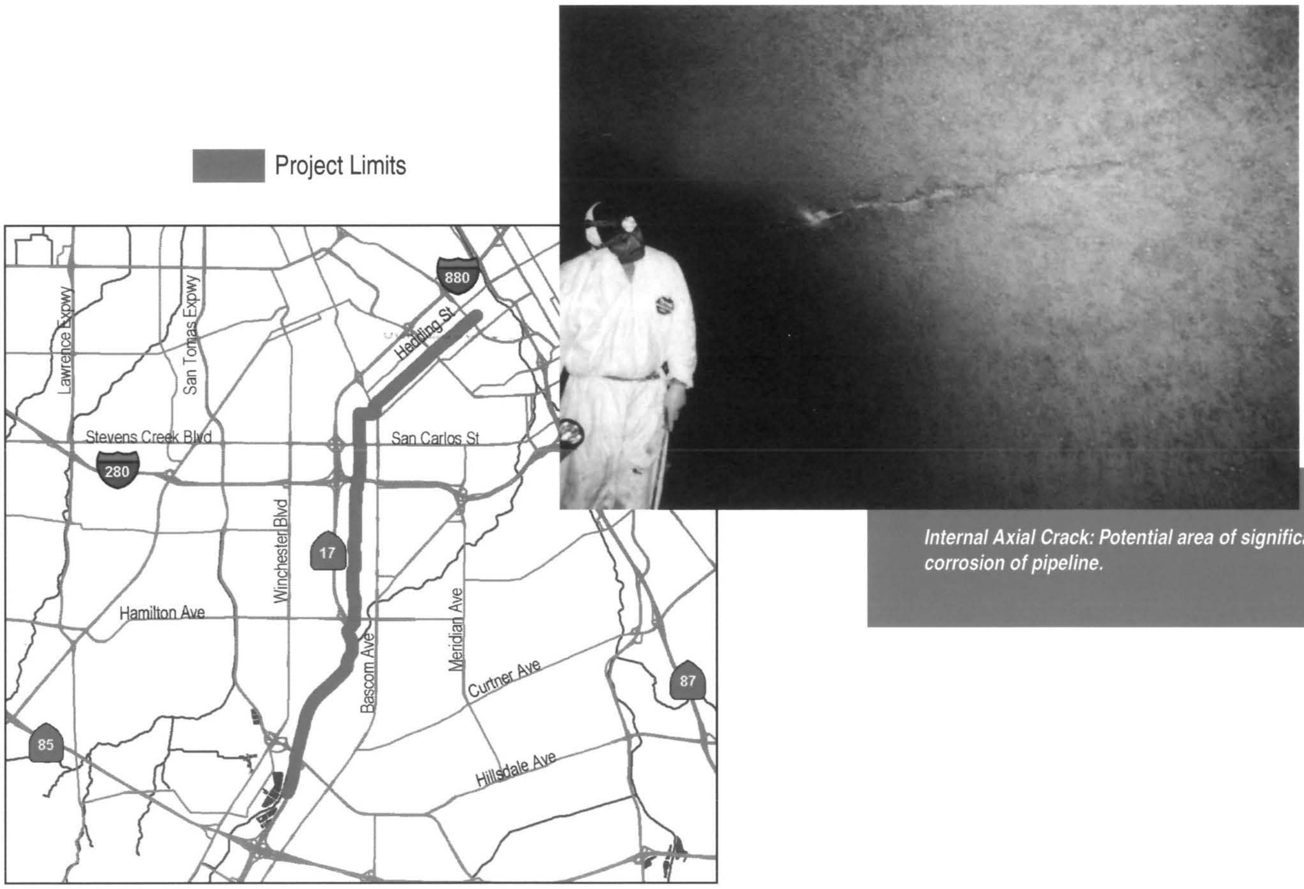
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



Internal Axial Crack: Potential area of significant corrosion of pipeline.

Vasona Addition & ADA Modifications

Project Number:
922607

Sponsoring Division:
Water Utility Operations

Project Manager:
Shola Idowu

OVERVIEW

OBJECTIVES

- Provide improvements by adding approximately 850 square feet new area for a restroom facility.
- Modify about 200 square feet of the existing area, to be joined with the new area, to meet the American Disability Act standards.
- Provide a communication room to be used for storage of a Communication Panel.
- Provide a room for storage of a hot water heater.

BENEFITS

- Policy EL-7, "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."
- Policy EL-7, Article 7.3 - "Further...He/she shall not subject plant and equipment to improper wear and tear or insufficient maintenance.

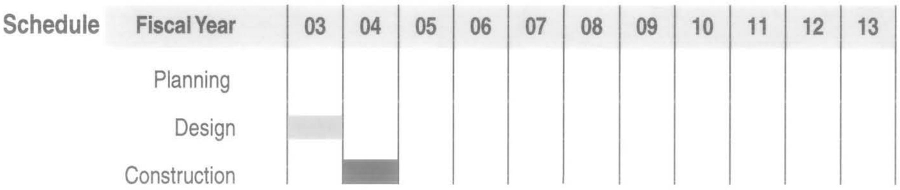
SCOPE OF WORK

- About 850 square-foot of new area, equipped with heating, ventilation and air conditioning is needed at the existing Meter Test building. The new area will provide showers and restrooms that are adequate for employees at the facility and will meet the requirements of current codes including 1998 California Building Code (CBC), 1998 California Plumbing Code, 1998 California Mechanical Code, 1998 California Electric Code, and the Americans with Disabilities Act Accessibility Guidelines (ADA-AG).
- About 200 square-foot of the existing Meter Test Building will be modified to meet ADA requirements and current building codes.
- Secured rooms that meet all the requirements stated above will be provided for storage of a Communication Panel and a hot water heater.
- To reduce the construction cost, the new area will be constructed of metal frame with stucco finish. The existing building was constructed of poured-in-place concrete.

SCHEDULE

INITIATION AND COMPLETION DATES

July 1999 to June 2004



COST
(inThousands $)

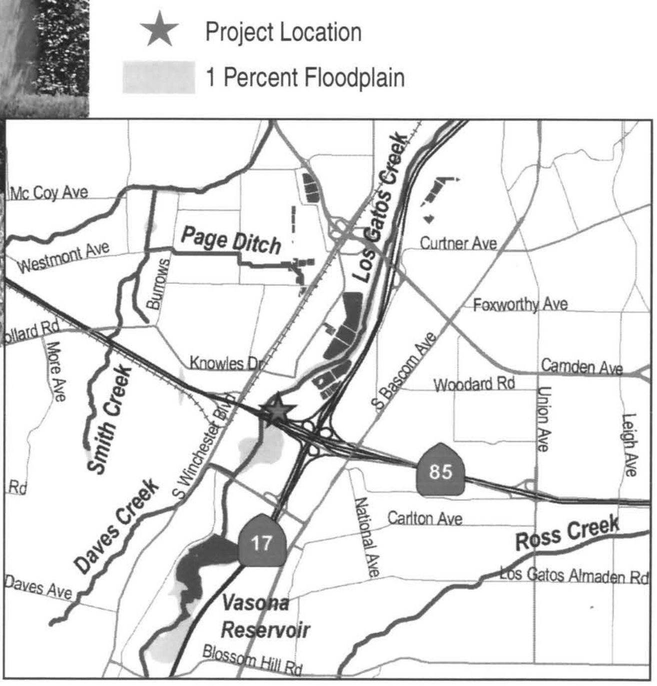
		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
922607	Vasona Addition & ADA Modifications	386	329	216	0	0	0	0	0	0	0	0	0	931

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated at this time.

Vasona Meter Test Building area to be expanded.



Vasona Pumping Plant Electrical

Project Number:
922608

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

Upgrade Vasona Pumping Plant's existing electrical systems, control systems, communications and fire protection systems to meet current District standards

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

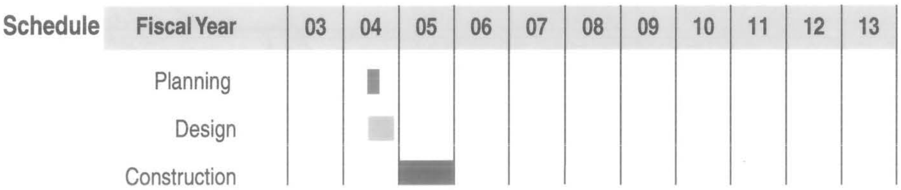
SCOPE OF WORK

- Analyze operations at the pumping plant
- Evaluate electrical systems and establish design criteria
- Prepare plans and specifications
- Obtain approvals
- Contract for installation and construction

SCHEDULE

INITIATION AND COMPLETION DATES

February 2004 to June 2005



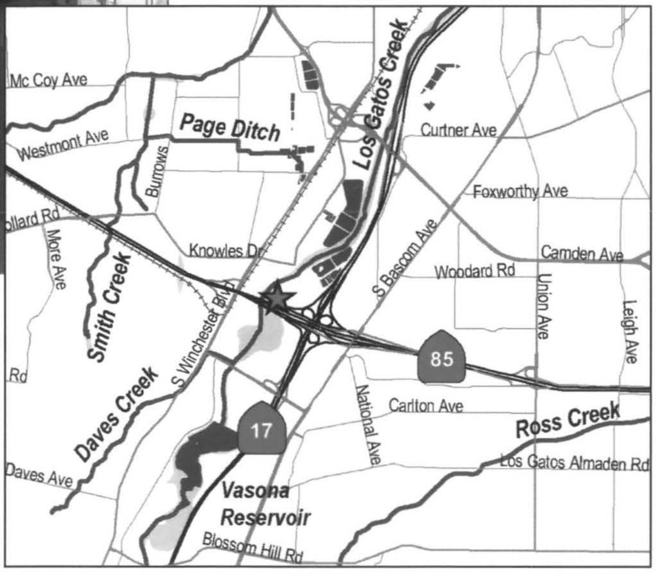
COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
922608	Vasona Pumping Plant Electrical	0	0	197	436	0	0	0	0	0	0	0	0	632

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

Four electrical control cabinets and motor control panels at Vasona Pumping Plant scheduled for upgrade.



★ Project Location

▨ 1 Percent Floodplain

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating budget impacts anticipated at this time.

Raw Water Control System

Project Number:
923702

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

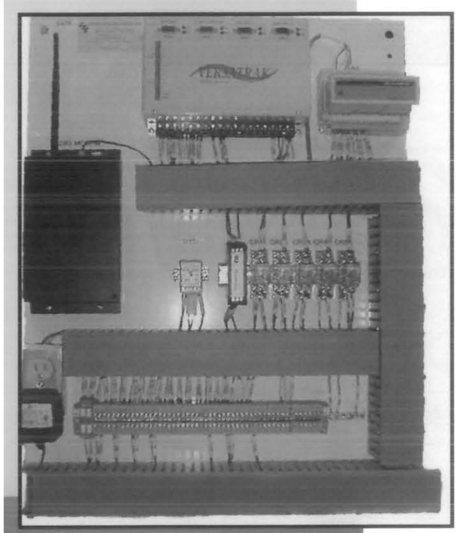
- To ensure safe, reliable and efficient operation and monitoring of all raw water transmission and distribution facilities.
- Upgrade current control system with operating features that will enable more effective and efficient monitoring of the District's critical raw water control systems.
- Replace aging hardware equipment and system softwares that cannot be maintained or repaired because of unavailability of spare parts

BENEFITS

Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides hardware and software improvements to controls sites on the raw water transmission and distribution system. Anticipated work includes construction/assembly of RTUs, site installations of the RTU panels, programming, testing and cut-over procedures, removal of old equipment, completion of markup drawings and as-built drawings.



Raw water remote terminal unit at Coleman line valve.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction		■									

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
923702	Raw Water Control System	5,035	319	959	27	0	0	0	0	0	0	0	0	6,340

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

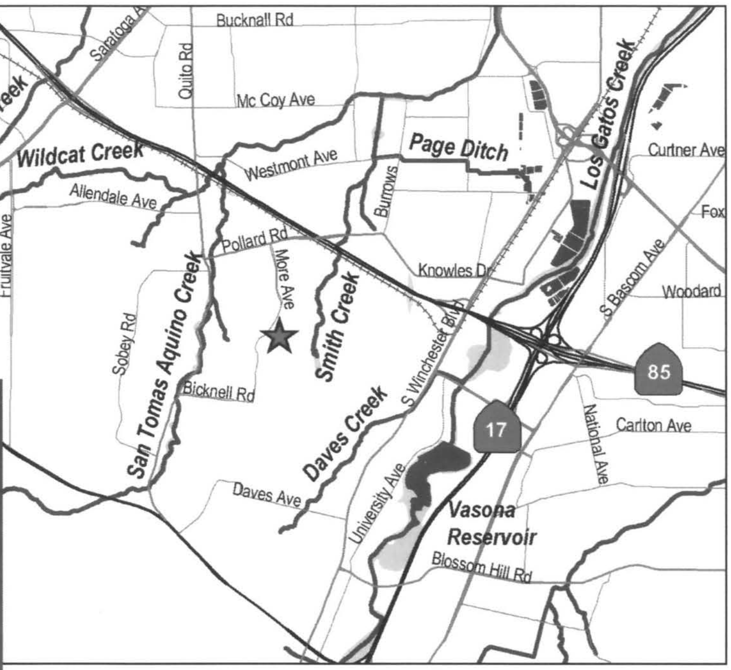
None

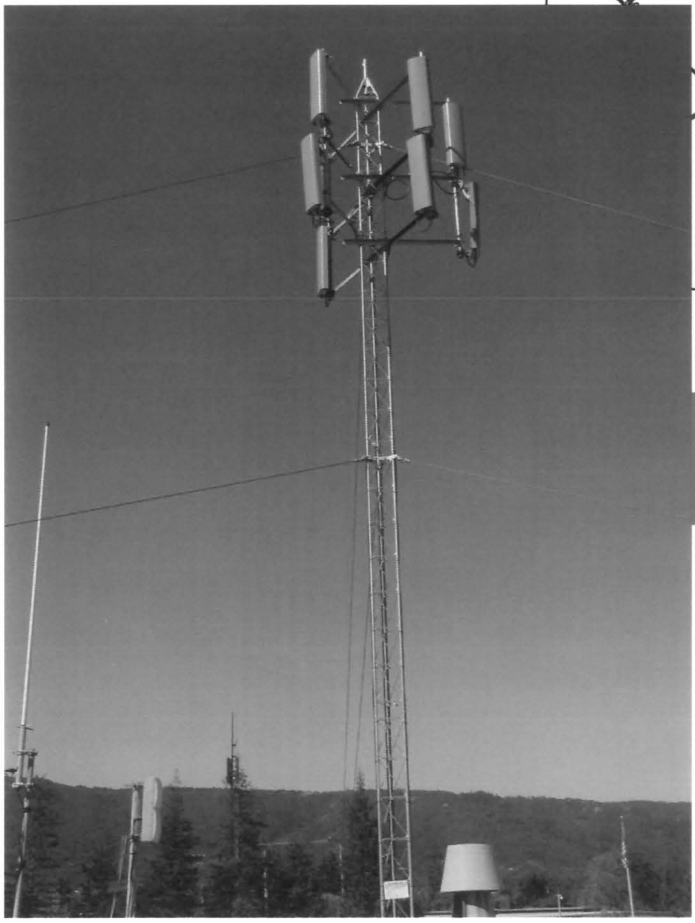
OPERATING BUDGET IMPACTS

Minor operating impacts are anticipated and will be determined in the near future.

★ Project Location

▨ 1 Percent Floodplain





Raw water supervisory control and data acquisition master station antenna mast located at Rinconada Water Treatment Plant.

Stream Flow Alert Upgrade

Project Number:
923704

Sponsoring Division:
Water Utility Operations

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

- Define regulatory and community obligations for preventing dry back events in identified environmental habitats.
- Replace the current daily field check done by Water Supply Management Division staff with more efficient technical devices to monitor streams for dry back events.

BENEFITS

Policy E-3, Article 3.1 - "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

Plan, design and construct best available technology to address in-stream flow requirements at:

- Saratoga Turn Out
- Calabazas Turn Out
- Regnart Turn Out
- Rodeo Turn Out
- Wild Cat Turn Out

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design		▨									
Construction			■								

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
923704	Stream Flow Alert Upgrade	0	0	87	334	0	0	0	0	0	0	0	0	421

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

Stream gaging station on San Francisquito Creek . Typical of stations to be upgraded throughout the county.

Kirk Ditch

Project Number:
925302

Sponsoring Division:
Water Utility Operations

Project Manager:
Greg Meamber

OVERVIEW

OBJECTIVES

- More effectively operate District Water Utility Facilities.
- Eliminate annual work required to maintain the open channel (by installing a 245-foot pipe) and replace deteriorated pipe under Curtner Avenue.

BENEFITS

Policy EL-5, Article 5.10 - "The CEO/GM shall not spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

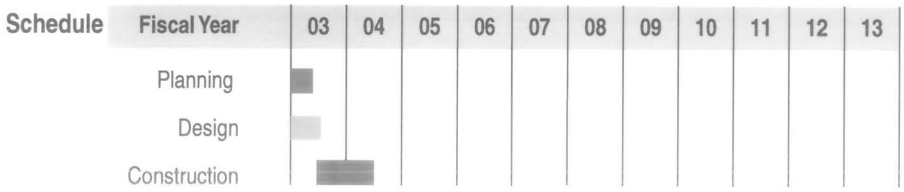
- Planning, design and construction to convert the open channel section at Curtner Avenue to a closed conduit. (Completed)
- Conversion of 250 feet of open channel to closed conduit along White Oaks Road in the vicinity of trashrack to reduce maintenance problem.
- Relocation of Stream Gage Station #55 to upstream of Hwy 27 at the Oka Ponds and closing the top of "U" channel at the existing location with access vault.
- Diversion of local drainage to the storm drain in Curtner Avenue.

Kirk Ditch transitioning to conduit under Highway 17, near the proposed location of Stream Gage Station #55.

SCHEDULE

INITIATION AND COMPLETION DATES

April 2002 to December 2003

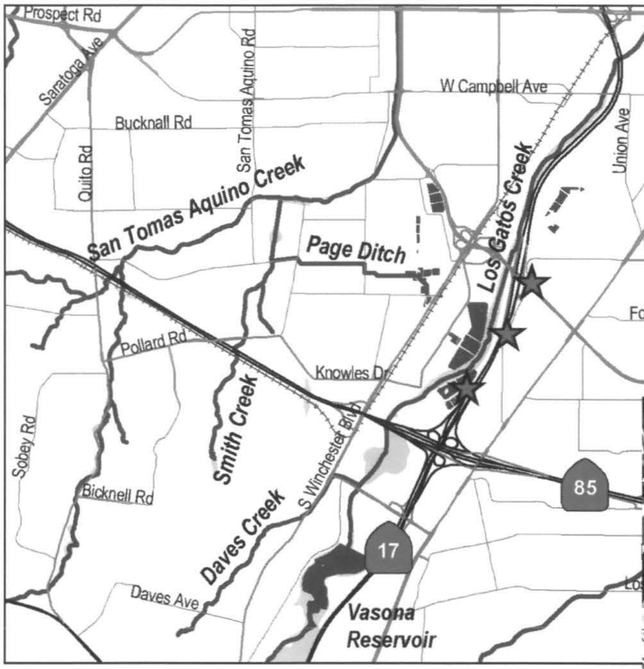


COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
925302	Kirk Ditch	269	360	974	72	0	0	0	0	0	0	0	0	1,675

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Kirk Ditch transitioning to conduit under Camden Avenue along the westerly side of White Oaks Road.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the planning phase.

Almaden–Calero Canal Rehabilitation

Project Number:
927201

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Restore the capacity of the Almaden-Calero Canal including the minimum required feeboard.
- Mininimize seepage through the canal lining.
- Improve maintenance access.
- Repair the outlet into Calero Reservoir.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy clean drinking water."
- Policy E-2, Article 2.2.2.1 - "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

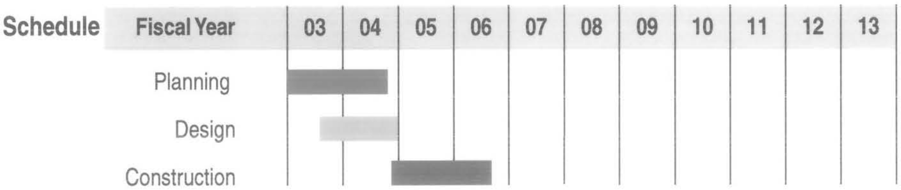
SCOPE OF WORK

- Conduct planning study and prepare an Engineers Report and EIR for the proposed project.
- Obtain required Resource Agency Permits
- Design facilities and prepare plans and specifications for bidding
- Construction and project close out activities

SCHEDULE

INITIATION AND COMPLETION DATES

October 2000 to February 2006



COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
927201	Almaden–Calero Canal Rehabilitation	1,042	3,645	0	1,618	270	0	0	0	0	0	0	0	6,575

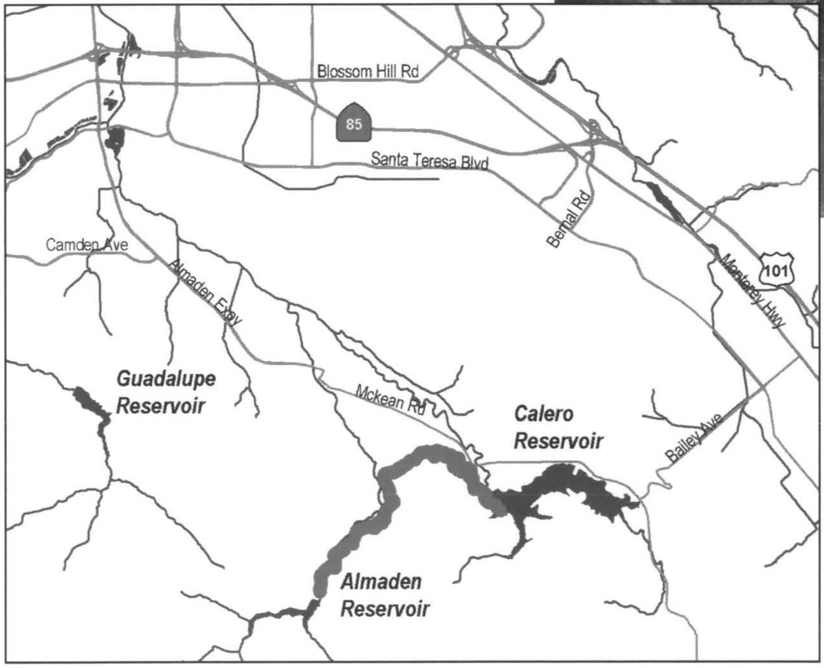
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated.

Almaden-Calero Canal, looking upstream at the upstream end of siphon #2.

▬ Project Limits



San Pedro Recharge Facility

Project Number:
927401

Sponsoring Division:
Water Supply Management

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Provide adequate water supply for South County.

BENEFITS

- Policy E-2, Article 2.2.2.3 - "Groundwater supplies are sustained."
- Policy E-3, Article 3.1.1.2 - "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Planning study, design, plans and specs and construction for the San Pedro Recharge Facility (complete).
- Planning study, design, plans and specs and construction for landscaping of the completed recharge facility to comply with obligations identified in the Engineering Report.
- Resolution of the existing agreement with Saratoga Horticultural Research Foundation.

SCHEDULE

INITIATION AND COMPLETION DATES

September 1991 to June 2010

Planning, design and construction of recharge facility is complete. The following schedule is for landscaping of the recharge facility.

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning					■						
Design						■					
Construction							■	■			

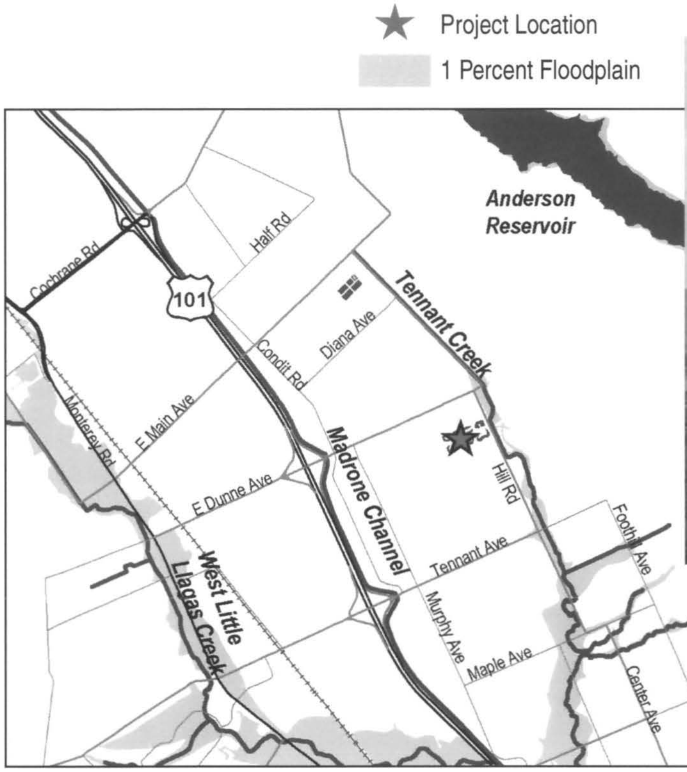
One of the seven percolation ponds at the San Pedro recharge facility.

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appproprîated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
927401	San Pedro Recharge Facility	4,093	861	13	39	0	155	313	22	22	0	0	0	5,518

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Initial construction of percolation ponds and flow control vault in 1995.

POTENTIAL COST SHARING

Joint recreation use and cost sharing with the City of Morgan Hill currently being investigated.

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the landscape-planning phase.

Valve 906
Low–flow Bypass

Project Number:
92C073

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Improve control of low flows from raw water system to Los Gatos Creek.

BENEFITS

- Policy E-2, Article 1.1.4 - "There are a variety of water supply sources."
- Policy E-2, Article 2.2.2.2 - "There is clean, safe water in our creeks and bays."
- Policy E-2, Article 2.2.2.3 - "Groundwater supplies are sustained."

SCOPE OF WORK

Plan, design and construct a turnout at Valve 906 to incorporate a low flow bypass with a flow range of zero to 25cfs.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2007 to June 2009

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning						■					
Design						■					
Construction							■				

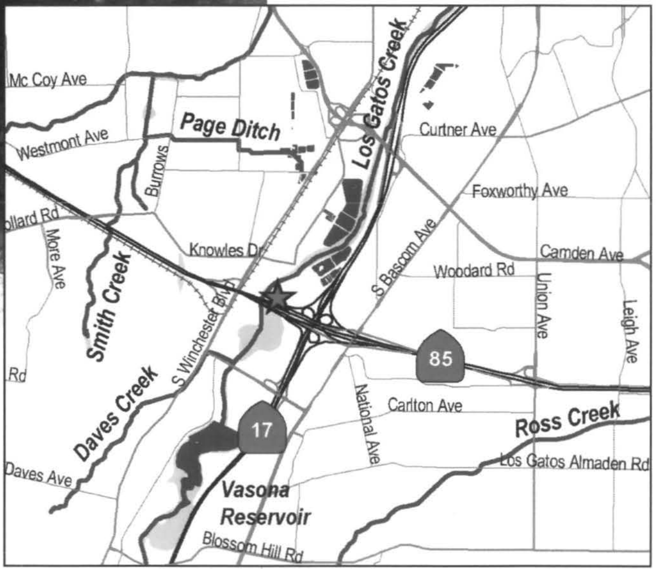
Vault 906 access and energy dissipater.

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
92C073	Valve 906 Low–Flow Bypass	0	0	0	0	0	106	20	0	0	0	0	0	126

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

Vault 906 outlet to Los Gatos Creek.



★ Project Location

▨ 1 Percent Floodplain

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

Vasona Pumping Plant Long Term

Project Number:
92C123

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Upgrade pumps and motors to meet District's current and future demand requirements.
- This project will improve reliability, correct operational design flaws, and ensure the viability of the Vasona Pumping Plant in relation to proposed system expansion.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

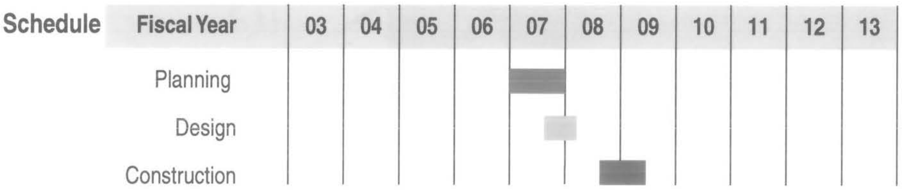
SCOPE OF WORK

Analyze operations at pumping plant. Evaluate design criteria from Master Planning. Plan and design new pumping systems and all related appurtenances. Manage Construction of pump replacements and other work as determined in Planning Study.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to January 2009



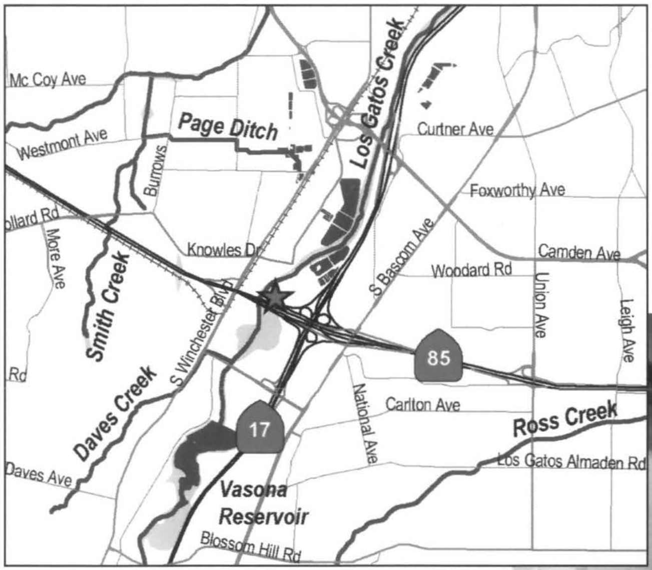
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
92C123	Vasona Pumping Plant Long Term	0	0	0	0	0	279	157	2,967	0	0	0	0	3,403

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



★ Project Location

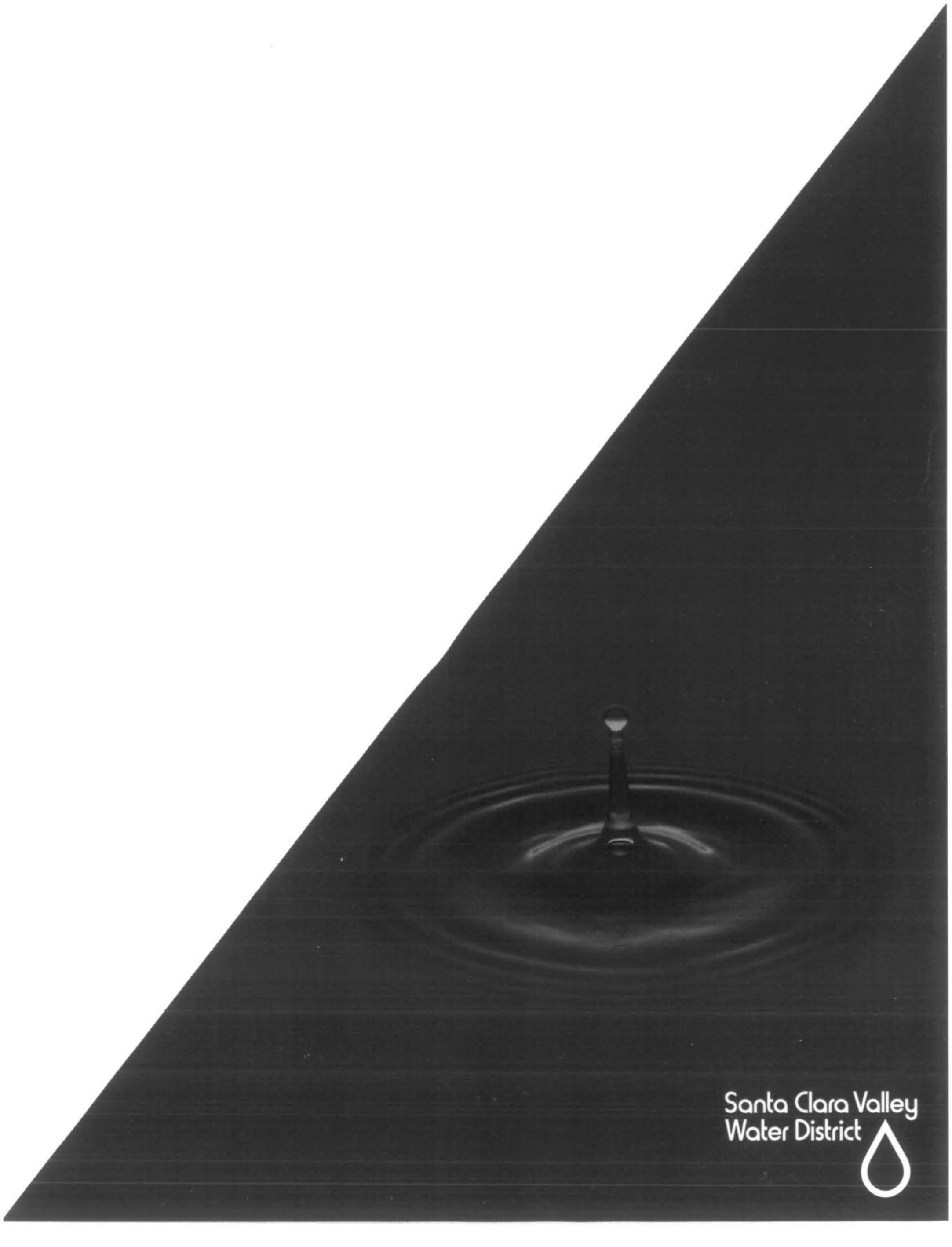
▨ 1 Percent Floodplain

Four existing pumps and motors at Vasona Pump Station scheduled for upgrade.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Water Treatment Cost Center



Santa Clara Valley
Water District

Water Treatment

WATER TREATMENT

COST CENTER OVERVIEW

The Water Treatment Cost Center contains all the anticipated expenditures, including capital investments, related to the treatment of raw water and production of high-quality drinking water. The infrastructure includes the three treatment plants, Rinconada Treatment Plant (RWTP), Penitencia Treatment Plant (PWTP), and Santa Teresa Treatment Plant (STWTP). The major functions include water treatment.

CAPITAL IMPROVEMENT PROGRAM

As stated in the Program Overview, the Utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for water treatment infrastructures is complete.

MAJOR PROJECTS - COMPLETED

STWTP Coating Project, Phase 2

- PWTP Filter Underdrain Replacement
- PWTP Caustic Soda System Upgrade
- PWTP Clearwell Modifications
- PWTP Landscape and Erosion Control
- PWTP, STWTP and RWTP Improvement Stage 1

MAJOR PROJECTS - CURRENT

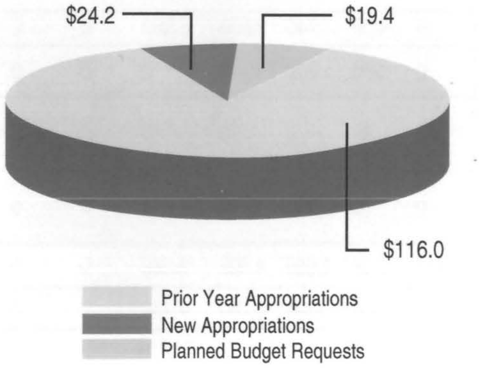
- PWTP Facility Improvement,
- PWTP, STWTP, and RWTP Improvement Stage 2
- PWTP Mechanics Repair Shop and Storage
- PWTP Zinc Orthophosphate System
- PWTP Natural Gas Generator
- Backup Disinfection
- Incompatible Materials
- RWTP Water System
- RWTP Generator System
- New Water Quality Laboratory

MAJOR PROJECTS - FUTURE

- Treatment Plant Filter Backwash Aid
- RWTP Chemical Storage
- RWTP Building Modifications
- RWTP BL-1 Valve Vault
- RWTP Air Wash System and Backwash Valves

Water Treatment Cost Center
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013

Total: $159.6 million



FINANCIAL OVERVIEW

The estimated ten-year capital investments, to complete current and future capital projects come from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects (in Thousands $, present worth)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
930809	SCADA Software/PLC Upgrade, WT Plants	0	0	1,140	1,189	0	0	0	0	0	0	0	0	2,329
932325	PWTP Improvement Stage 1	32,479	490	0	0	0	0	0	0	0	0	0	0	32,969
932328	PWTP Improvement Stage 2	47,393	745	1,673	1,539	306	0	0	0	0	0	0	0	51,656
932331	PWTP Mech Repair Shop/Storage	557	411	1,307	186	0	0	0	0	0	0	0	0	2,461
932332S	Zinc Orthophosphate System	149	2,346	745	1,495	0	0	0	0	0	0	0	0	4,735
932333	PWTP Natural Gas Generator	36	284	288	1,726	0	0	0	0	0	0	0	0	2,334
932334S	Waste Stream Separation	0	141	249	645	0	0	0	0	0	0	0	0	1,035
932335	PWTP Operations Bldg Mods & Expansion	0	0	126	318	205	0	0	0	0	0	0	0	649
932336	PWTP Backwash Pump	0	0	267	843	0	0	0	0	0	0	0	0	1,110
932337S	Visual Screening at Treatment Plants	0	0	143	777	0	0	0	0	0	0	0	0	920
932338S	Telephones at Treatment Plants/ Vasona	0	0	80	1,151	0	0	0	0	0	0	0	0	1,232
932825	STWTP Improvement Stage 1	3,874	69	0	0	0	0	0	0	0	0	0	0	3,943
932828S	STWTP Improvement Stage 2	53,311	1,684	1,746	1,682	767	265	0	0	0	0	0	0	59,454
932829S	Backup Disinfection	1,780	2,426	4,526	266	0	0	0	0	0	0	0	0	8,998
932830	STWTP Imcompatible Materials	181	1,073	1,367	391	0	0	0	0	0	0	0	0	3,011
932925	RWTP Improvement Stage 1	7,360	131	0	0	0	0	0	0	0	0	0	0	7,491
932928S	RWTP Improvement Stage 2	14,665	3,057	12,025	73,116	807	1,063	796	0	0	0	0	0	105,529
932933	RWTP Plant Water System	3,478	24	112	55	0	0	0	0	0	0	0	0	3,669
932935	RWTP Backup Generator System	8	576	882	4	0	0	0	0	0	0	0	0	1,469
932942	RWTP Control System Trunk Cables	0	0	184	0	0	0	0	0	0	0	0	0	184
934003	New Water Quality Laboratory	3,508	5,947	3,568	239	0	0	0	0	0	0	0	0	13,262
93C059	RWTP Filter Inlet & Raw Water Inlet Valves	0	0	0	0	217	866	0	0	0	0	0	0	1,083
93C060	Treatment Plant Filter Backwash Aid	0	0	0	0	173	200	580	500	0	0	0	0	1,453
93C062	STWTP Local Backwash Control	0	0	0	0	0	338	0	0	0	0	0	0	338
93C081S	Caustic Soda Storage	0	0	0	0	0	199	998	505	500	0	0	0	2,202
93C084	RWTP Filter Cell Isolation Valves	0	0	0	0	0	90	261	0	0	0	0	0	351
93C085	RWTP Chemical Storage	0	0	0	0	0	621	900	900	0	0	0	0	2,421
93C086	RWTP Bldg Mods	0	0	0	0	0	600	740	2,500	2,860	0	0	0	6,700
93C115	RWTP BL-1 Valve Vault	0	0	0	0	0	200	800	0	0	0	0	0	1,000
93C116	RWTP Discharge Valves Actuator Replacement	0	0	0	0	0	88	0	0	0	0	0	0	88
93C117	RWTP Air Wash System & Backwash Valves	0	0	0	0	0	76	880	0	0	0	0	0	956
	Total	168,778	19,404	30,428	85,621	2,475	4,606	5,955	4,405	3,360	0	0	0	325,032
	Total (with inflation)	168,778	19,404	30,428	85,621	2,704	5,184	6,904	5,260	4,132	0	0	0	328,415
	Capital Investment		19,404	116,049		24,184								159,637

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

SCADA Software PLC Upgrade, WT Plants

Project Number:
930809

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Upgrade and replacement of obsolete SCADA control system softwares at the District's three water treatment plants
- Provide new software to meet new requirements of TWIP II improvements
- Provide real-time data collection capability and graphical interface features

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

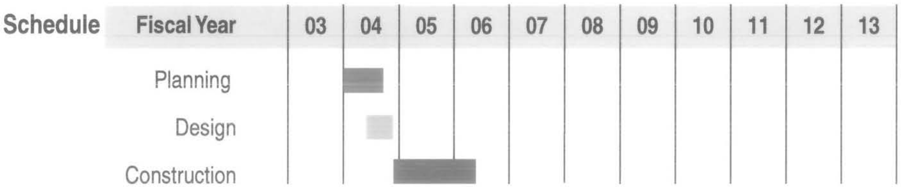
Prepare planning, design and construction to convert all systems to iFIX version 2.6 or higher and upgrade PLCs. Hardware improvements include PLC replacements at all three treatment plants, communication cable replacements at Penitencia, and Santa Teresa Water Treatment Plants.

- Prepare plans and specifications
- Obtain approvals
- Contract for installation and construction
- Manage construction and installation to convert all software systems to new versions and to upgrade PLCs

SCHEDULE

INITIATION AND COMPLETION DATES

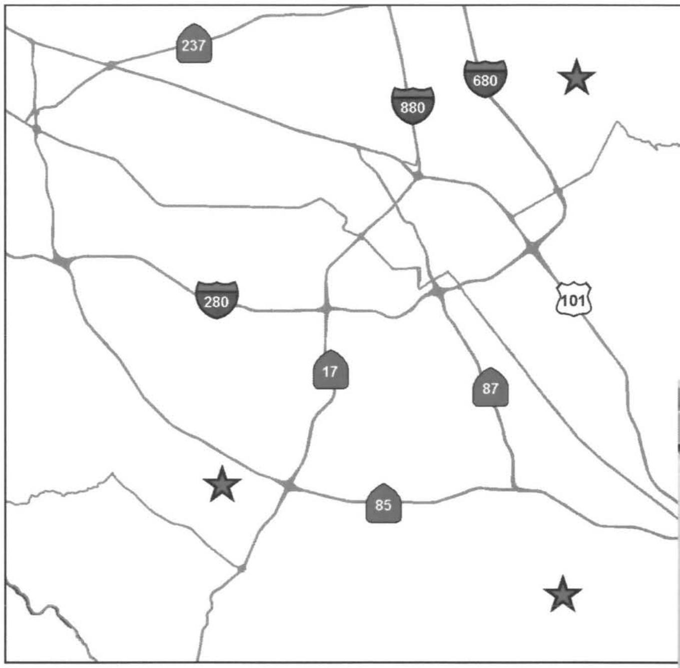
July 2003 to November 2005



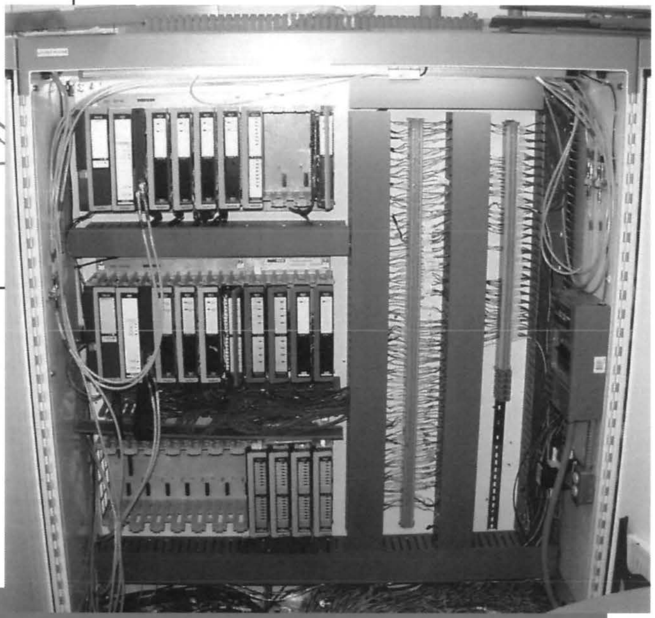
COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
930809	SCADA Software/ PLC Upgrade, WT Plants	0	0	1,140	1,189	0	0	0	0	0	0	0	0	2,329

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location



The Penitencia Water Treatment Plant control systems PLC & IO cabinet is scheduled for replacement and upgrade.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated at this time.

PWTP Improvement Stage 1

Project Number:
932325, 932320

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Penitencia Water Treatment Plant to comply with the disinfectant/disinfection by-products rule and interim enhanced surface water treatment rule, while maintaining a safe and reliable system, and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the closeout phase. The closeout phase includes: Project Management, Construction Contract Administration closeout activities, implant modification to the PAC vent filter to address safety issues, and to prepare as-built drawings.

Post construction view of treatment basins.

SCHEDULE

INITIATION AND COMPLETION DATES

July 1997 to October 2002

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning											
	Design											
	Construction	■										

COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
932325	PWTP Improvement Stage 1	27,504	490	0	0	0	0	0	0	0	0	0	0	27,994
932320	PWTP Clearwell Modifications S1	4,975	0	0	0	0	0	0	0	0	0	0	0	4,975
Total		32,479	490	0	0	0	0	0	0	0	0	0	0	32,969

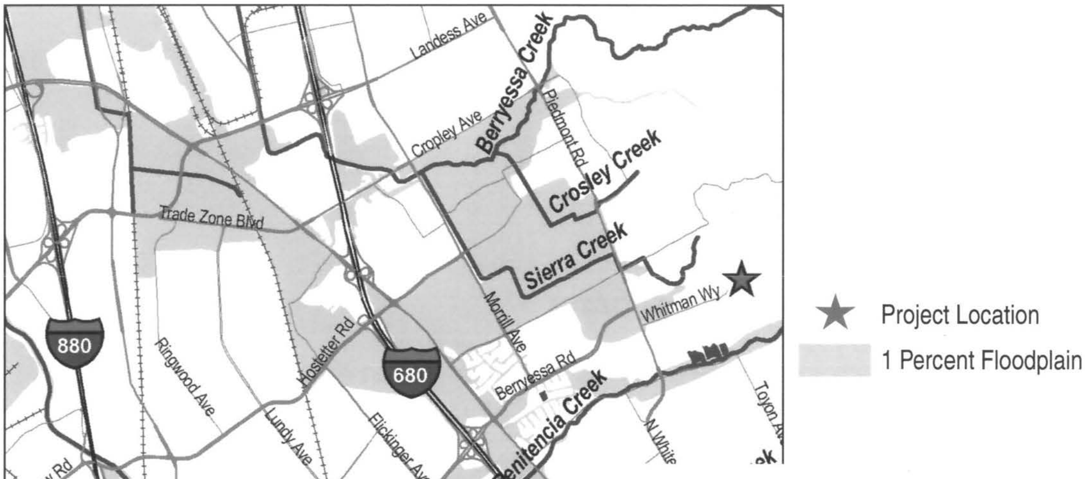
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are depending on the utilization of the TWIP Stage 1 facilities by operations.



Reconstruction of treatment basins

PWTP Improvement
Stage 2

Project Number:
932328

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

Single skid mounted ozone generator and power supply unit of a similar size to those planned for PWTP.

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

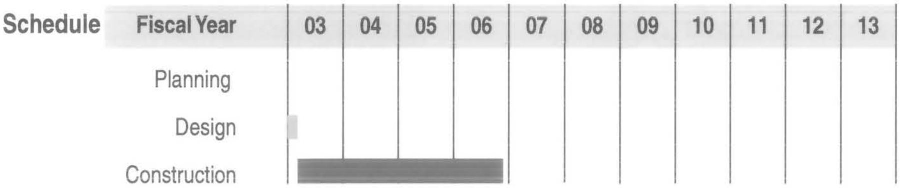
SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for design and construction of improvements recommended in the Engineer's report as adopted by the District Board of Directors, including design, preparation of plans and specifications, and construction management efforts.

SCHEDULE

INITIATION AND COMPLETION DATES

January 1999 to May 2006
(Design and construction only. Planning phase accomplished in Treated Water Improvement Project (000204) and completed December 1998.)



COST
(inThousands $)

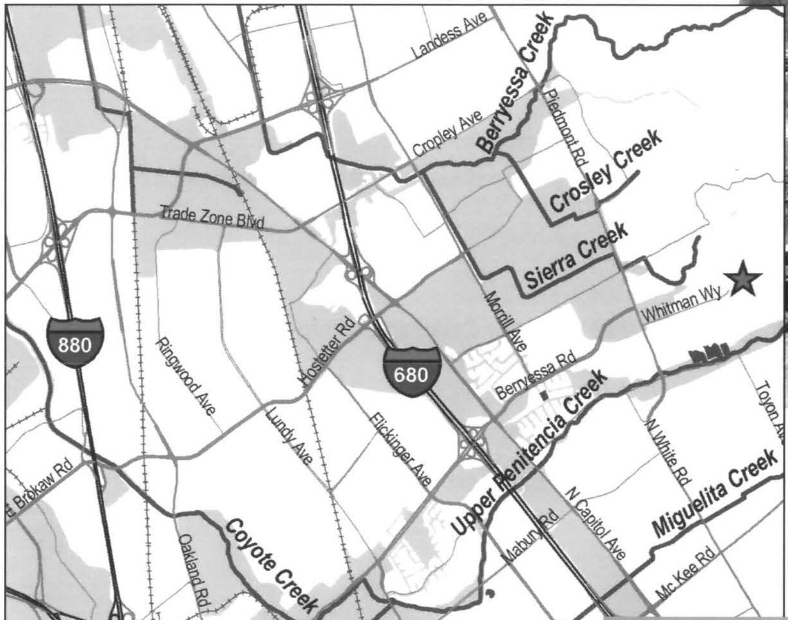
Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932328	PWTP Improvment Stage 2	47,393	745	1,673	1,539	306	0	0	0	0	0	0	0	51,656

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
The estimated operating cost impact after completion of Stage 2 is $ 632,800 annually (2002 dollars).

A drilling rig is boring one of over 100 holes for the 50-foot deep "secant wall" that will form a solid concrete shoring wall to protect existing buildings and the construction area during construction of the ozone generation building.



★ Project Location

▨ 1 Percent Floodplain

Foundation work for the ozone quenching facility includes installing a considerable number of electrical conduits for control and electrical distribution.

PWTP Mechanics Repair Shop/Storage

Project Number:
932331

Sponsoring Division:
Water Utility Operations

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

- Address the fire code violation of the existing maintenance shed.
- Vacate and demolish the existing shed to allow construction of the new sulfuric acid storage facility.
- Provide adequate workshop space including storage areas and offices to meet the needs of the maintenance personnel situated at the plant.

BENEFITS

- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked. "
- Policy EL-7, Article 7.3 - "Further...he/she shall not subject plant and equipment to improper wear and tear or insufficient maintenance."

SCOPE OF WORK

- Perform Project Management (i.e., project plan, work plans, status reports, control and change management, budget, Capital Improvement Plan, etc.)
- Prepare topographical survey
- Author an Engineer's Report for Board of Director's approval
- Procure and administer a consultant contract to provide design, construction documents, as-built drawings, and geotechnical services
- Administer the consultant agreements
- Provide project quality assurance
- Procure and administer a consultant contract to prepare California Environmental Quality Act (CEQA) documents for this project and 5 (five) other projects at PWTP
- Advertise construction documents for construction
- Provide Construction Management services
- Project close-out, including O&M Manuals, as-builts, project statistics, etc.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to July 2005

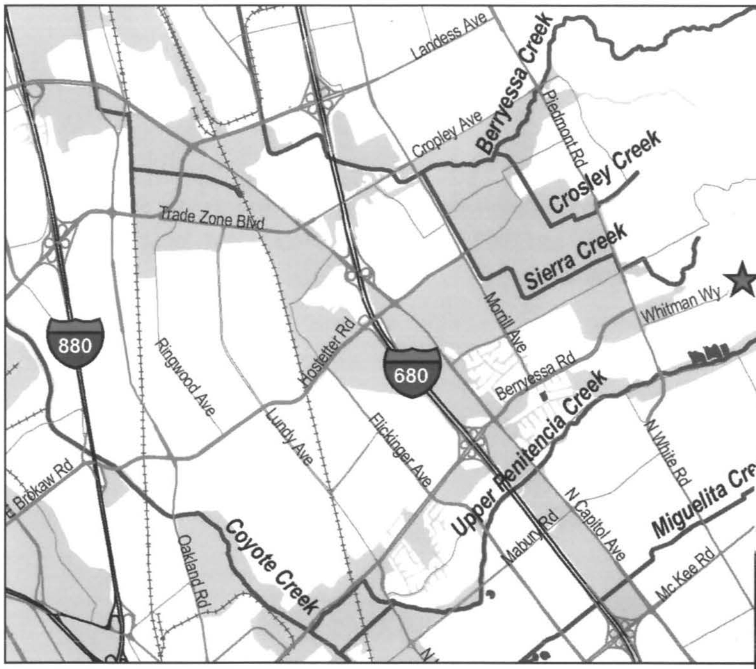
Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	░										
Construction	█	█									

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932331	PWTP Mechanics Repair Shop & Storage	557	411	1,307	186	0	0	0	0	0	0	0	0	2,461

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated at this time.

Interim storage shed and new storage shed site.

Existing storage shed.

Zinc Orthophosphate System

Project Number:
932332, 932929

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for replacing the existing zinc orthophosphate system at PWTP and RWTP with a new corrosion inhibitor system which meets new regulations and District standards.

This work is being accomplished in the following jobs:
932332 PWTP Zinc Orthophosphate System
932929 RWTP Zinc Orthophosphate System

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to July 2005

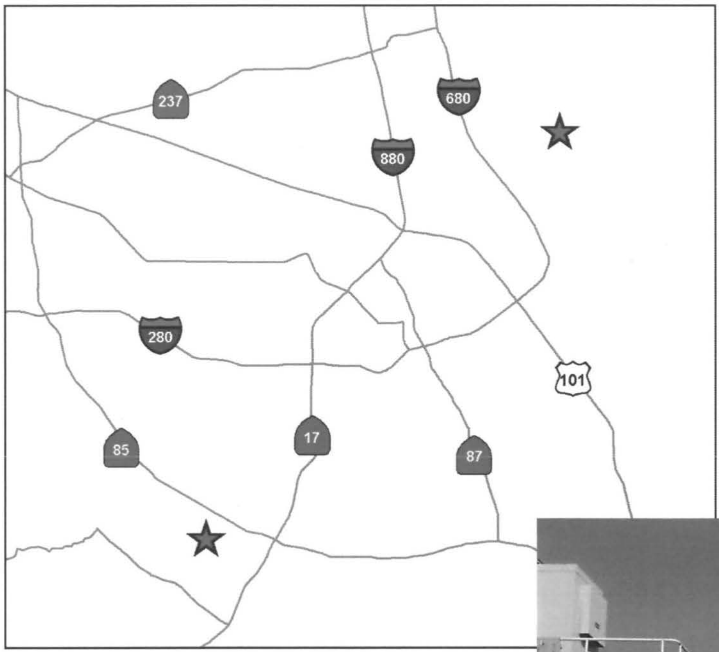
Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning											
	Design	▨										
	Construction	▨	▨									

RWTP Zinc Orthophosphate System

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932332	PWTP Zinc Orthophosphate System	75	738	385	1,010	0	0	0	0	0	0	0	0	2,208
932929	RWTP Zinc Orthophosphate System	74	1,608	360	484	0	0	0	0	0	0	0	0	2,527
Total		149	2,346	745	1,495	0	0	0	0	0	0	0	0	4,735

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.

★ Project Location

PWTP Existing Zinc Orthophosphate System

PWTP Natural Gas Generator

Project Number:
932333

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

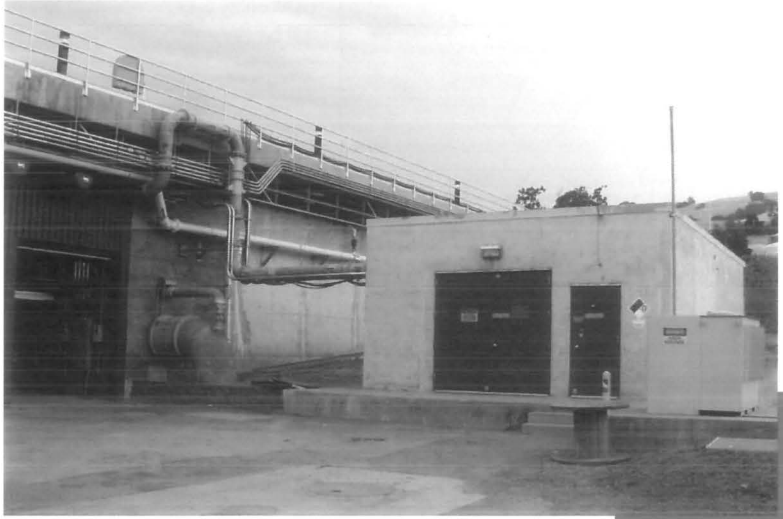
- Utilize distributed generation to provide reliable and cost effective power for treatment plant operation.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction for replacing the existing power generation system at PWTP to provide a reliable and safe source of backup power to meet current and future demands.



Existing diesel powered generator building

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to July 2005

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	■										
Construction	■	■									

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
932333	PWTP Natural Gas Generator	36	284	288	1,726	0	0	0	0	0	0	0	0	2,334

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

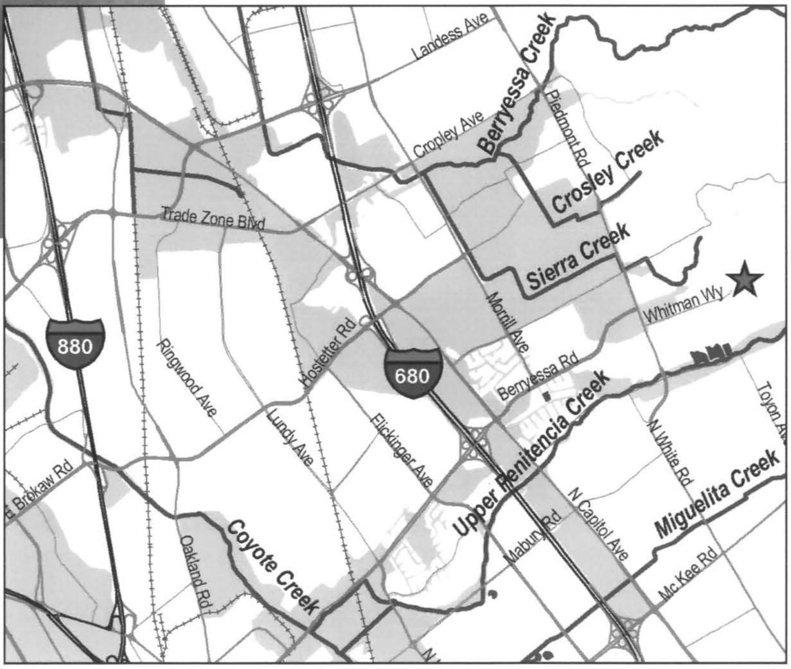
Existing diesel powered generator.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



Waste Stream Separation

Project Number:
932334, 932937

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.
- Provide a safe and productive environment for employees.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for separating the flow streams entering the washwater ponds to ensure any recovered water from the washwater recovery basins is not contaminated.

PWTP Washwater Recovery Ponds

SCHEDULE

INITIATION AND COMPLETION DATES

July 2002 to July 2005

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning	■										
	Design		■									
	Construction			■								

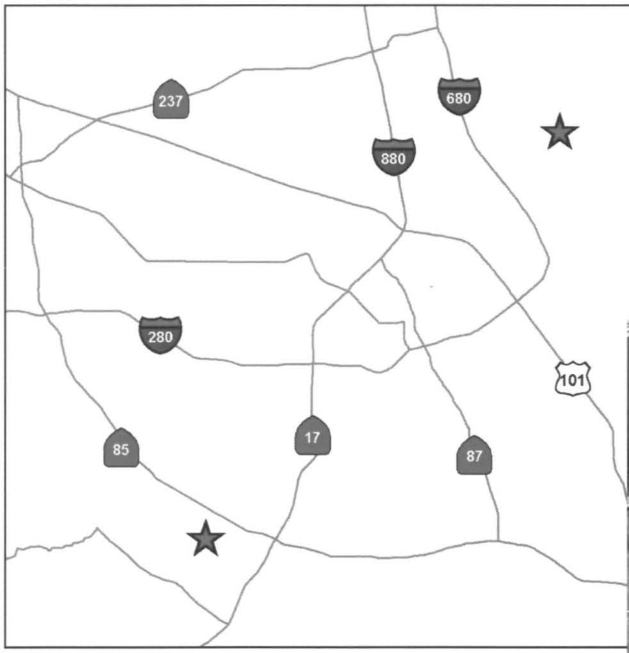
COST
(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
932334	PWTP Waste Stream Separation	0	103	127	363	0	0	0	0	0	0	0	0	593
932937	RWTP Waste Stream Separation	0	38	121	283	0	0	0	0	0	0	0	0	442
Total		0	141	249	645	0	0	0	0	0	0	0	0	1,035

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.



★ Project Location

Waste streams that can upset the treatment process will be diverted from the washwater recovery ponds.

PWTP Operations Building Modifications & Expansion

Project Number:
932335

Sponsoring Division:
Water Utility Operations

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

To upgrade the Operations Building to provide an efficient, healthy and safe work environment, including sufficient office space and storage, which comply with current health and building code requirements.

BENEFITS

EL-3 - "With respect to the treatment of staff and volunteers, the CEO may not cause or allow conditions which are unfair, undignified, disorganized, or unclear."

SCOPE OF WORK

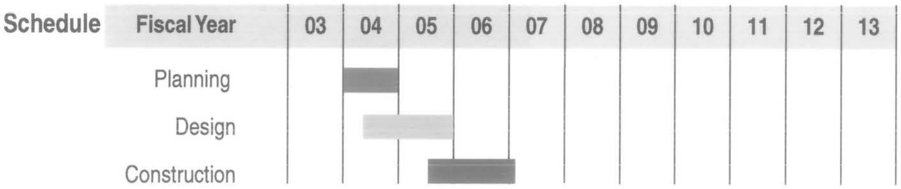
The project will provide the following deliverables:
- Planning study, including approved environmental document.
- Necessary permits.
- Plans and specifications.
- Construction management.

This project will expand the Operations building to include:
- Adequate office space for staff.
- Sufficient storage area.
- Multi-purpose room for staff meetings, training, and lunchroom.
- Appropriate restroom facilities with showers & locker storage for both men and women.
- Janitorial room.
- Compliance with latest building codes, health & safety codes, and office space standards.
- Receptionist area.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to July 2006



COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
932335	PWTP Operations Building Modification & Expansion	0	0	126	318	205	0	0	0	0	0	0	0	649

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

Existing PWTP Operations Building

POTENTIAL COST SHARING

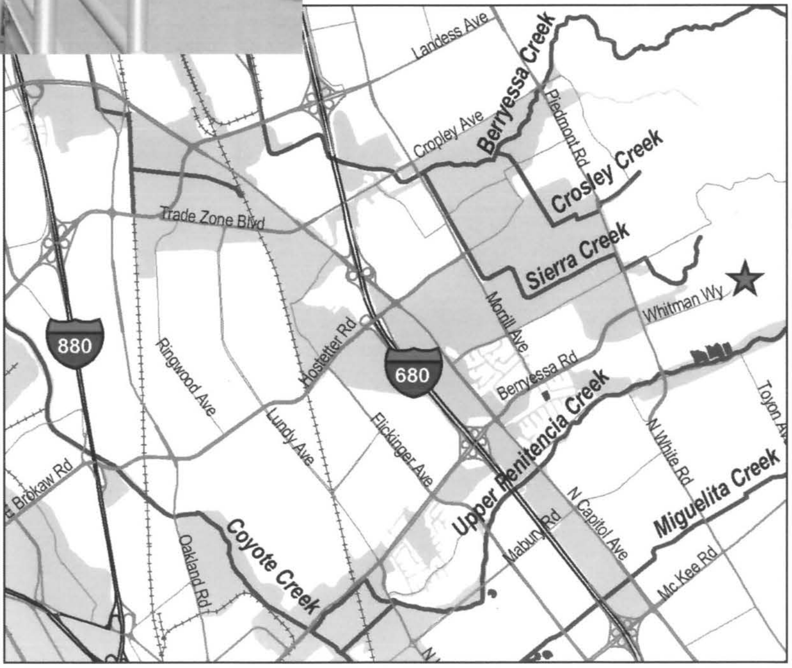
None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

★ Project Location

▨ 1 Percent Floodplain



PWTP Backwash Pump

Project Number:
932336

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction to replace the existing backwash pump at PWTP with a new pump and variable speed drive to meet demands resulting from completion of TWIP 1 and 2 improvements.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2006

Schedule

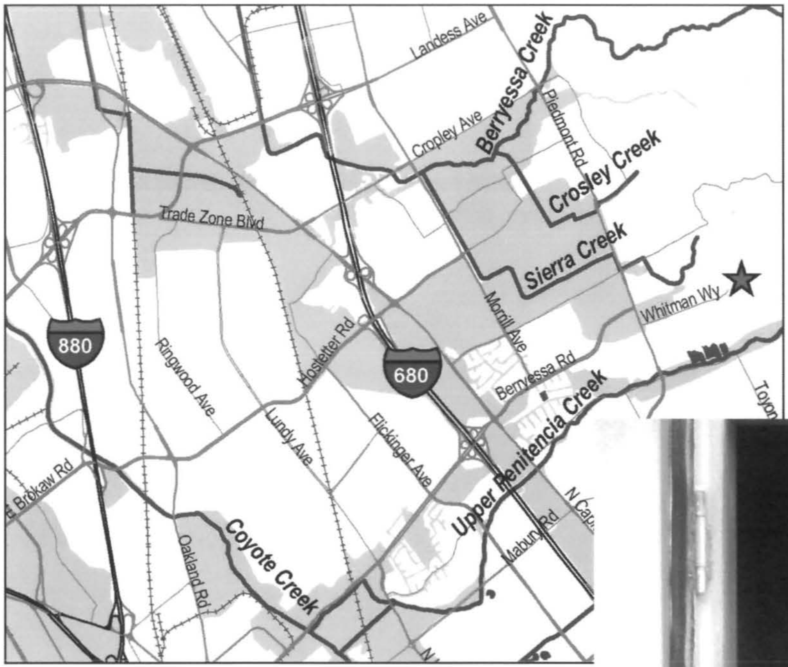
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design			■								
Construction				■							

COST

(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Apppropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	Est. Total Cost
932336	PWTP Backwash Pump	0	0	267	843	0	0	0	0	0	0	0	0	1,110

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

Backwash pump at Penitencia Water Treatment Plant.

Visual Screening at Treatment Plants

Project Number:
932337, 932832, 932939

Sponsoring Division:
Water Utility Operations

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

To comply with recommended mitigation measures specified in the Mitigation Monitoring & Reporting Plan (MMRP)

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Planting trees and landscaping to comply with the mitigation measures in the MMRP developed for TWIP II. This work is being accomplished in the following projects:

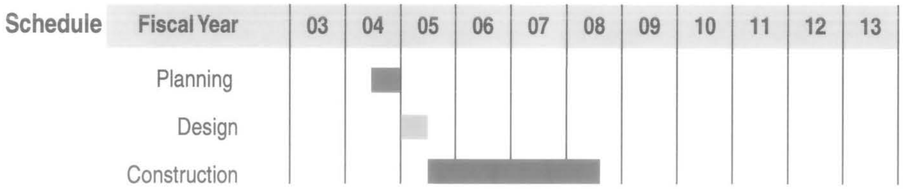
932337 - Visual Screening at PWTP
932832 - Visual Screening at STWTP
932939 - Visual Screening at RWTP

Vegetated landscape will screen the water treatment plants from public view.

SCHEDULE

INITIATION AND COMPLETION DATES

January 2004 to December 2007



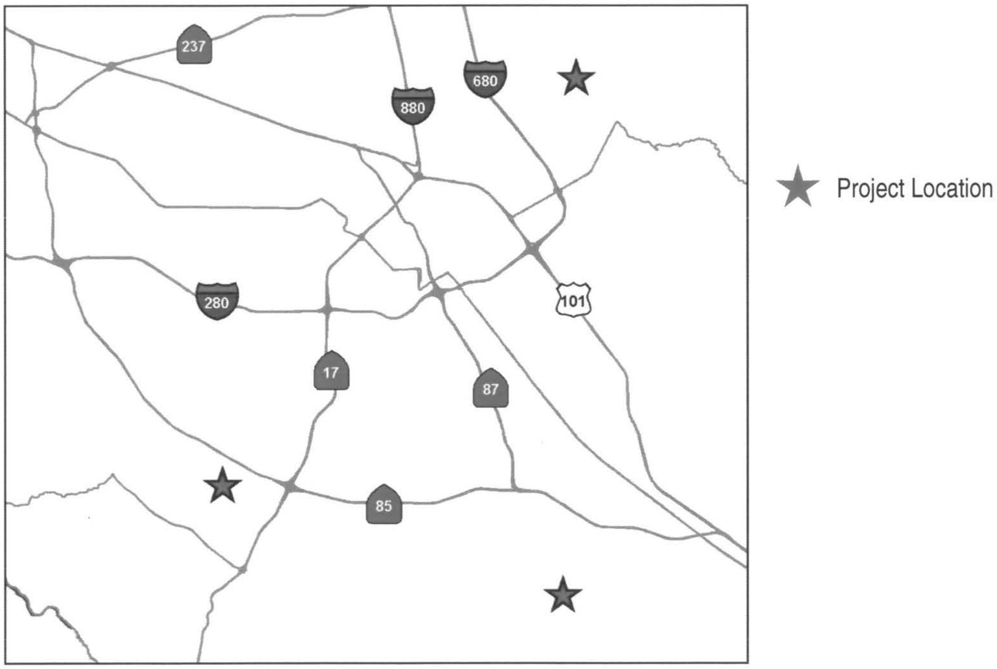
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
932337	Visual Screening at PWTP	0	0	48	212	0	0	0	0	0	0	0	0	260
932832	Visual Screening at STWTP	0	0	48	325	0	0	0	0	0	0	0	0	373
932939	Visual Screening at RWTP	0	0	48	240	0	0	0	0	0	0	0	0	287
Total		0	0	143	777	0	0	0	0	0	0	0	0	920

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the planning phase of the project.



Telephones at Treatment Plants/Vasona

Project Number:
932338, 932601,
932833, 932940

Sponsoring Division:
Water Utility Operations

Project Manager:
Bill Knoff

OVERVIEW

OBJECTIVES

To update exiting 18-29-year-old telecommunications equipment with expanded service capacity to support exiting and planed future work at Rinconada Water Treatment Plant, Santa Teresa Water Treatment Plant, Penitencia Water Treatment Plant, Vasona Pumping Station/ Meter Shop/ Pilot Plant.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare planning, design and construction of replacement telecommunications equipment for RWTP, STWTP, PWTP and Vasona Pumping Station/ Meter Shop/ Pilot Plant.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2005

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning		■									
Design		■									
Construction			■								

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932338	Telephones at PWTP	0	0	20	288	0	0	0	0	0	0	0	0	308
932601	Telephones at Vasona	0	0	20	288	0	0	0	0	0	0	0	0	308
932833	Telephones at STWTP	0	0	20	288	0	0	0	0	0	0	0	0	308
932940	Telephones at RWTP	0	0	20	288	0	0	0	0	0	0	0	0	308
Total		0	0	80	1,151	0	0	0	0	0	0	0	0	1,232

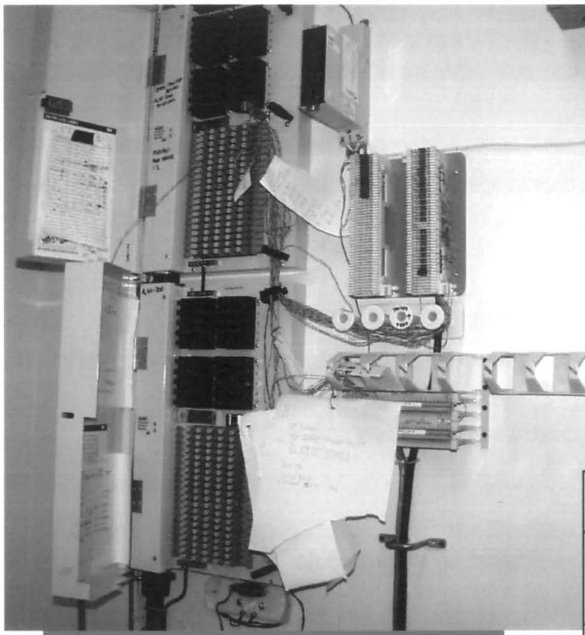
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

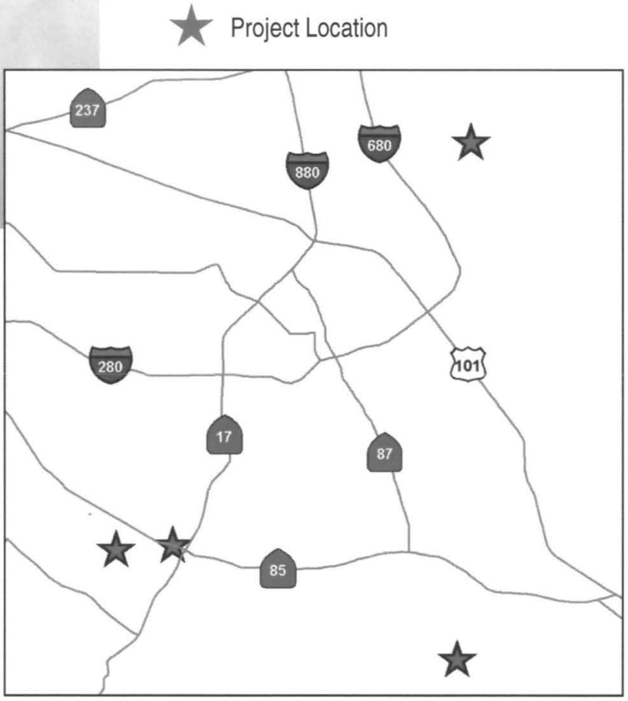
None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



Existing telecommunication cross–connects.



STWTP Improvement Stage 1

Project Number:
932825

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Santa Teresa Water Treatment Plant to comply with the disinfectant/disinfection by-products rule and interim enhanced surface water treatment rule, while maintaining a safe and reliable system, and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the closeout phase. The closeout phase includes: Project Management, Construction Contract Administration closeout activities, and As-Built drawings.

STWTP Alum/Ferric storage area

SCHEDULE

INITIATION AND COMPLETION DATES

July 1997 to October 2002

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning											
	Design											
	Construction	▨										

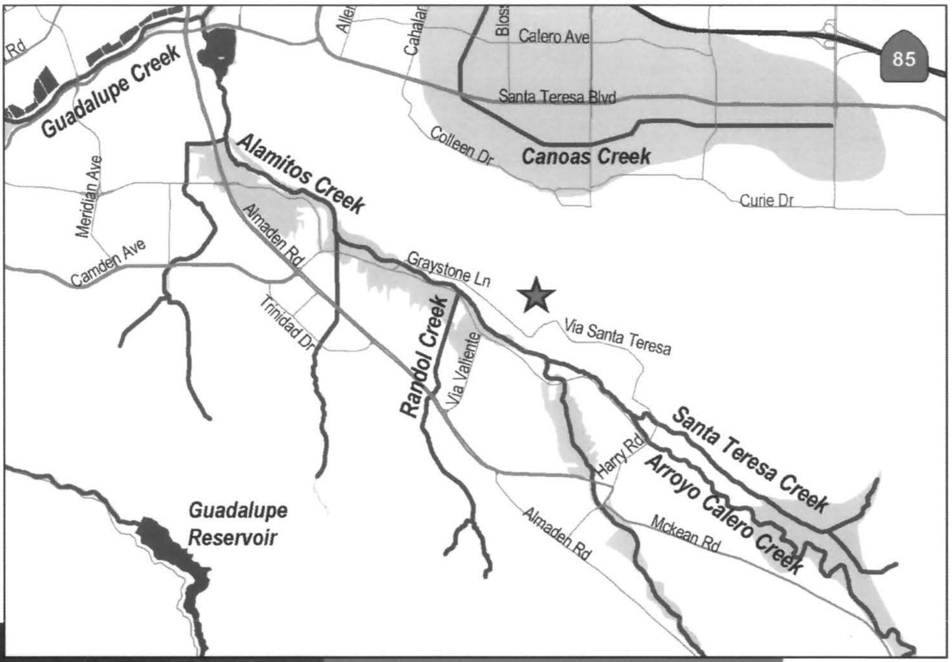
COST
(inThousands $)

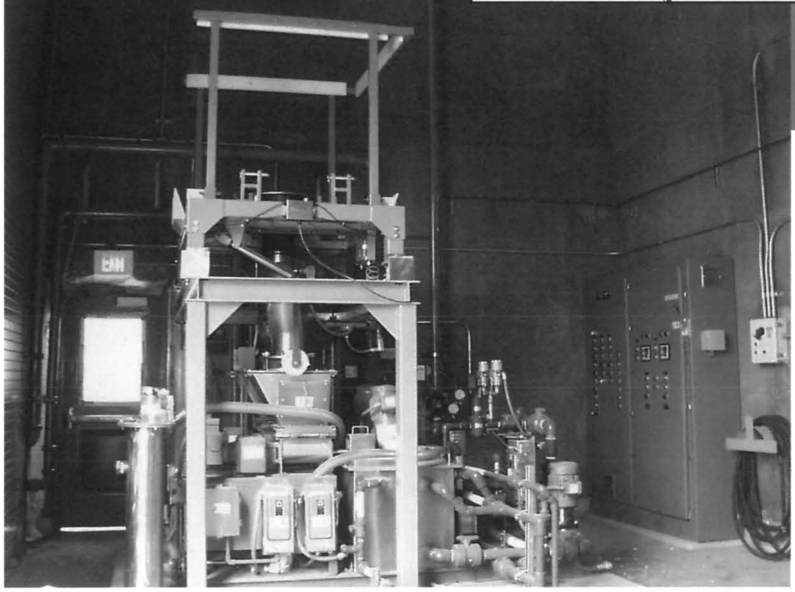
		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
932825	STWTP Improvement, Stage 1	3,874	69	0	0	0	0	0	0	0	0	0	0	3,943

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are depending on the utilization of the TWIP Stage 1 facilities by operations





STWTP Postassium Permanganate facility

STWTP Improvement Stage 2

Project Number:
932828

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.

BENEFITS

- Policy E-2, Article 2.1 - “There is a reliable supply of healthy, clean drinking water.”
- Policy E-2, Article 2.1.1 - “The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner.”
- Policy E-2, Article 2.1.2 - “The water supply is reliable to meet current demands.”
- Policy E-2, Article 2.1.3 - “The water supply is reliable to meet future demands as identified in the District’s Integrated Water Resource Plan (IWRP) process.”

SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for the design and construction of improvements recommended in the Engineer’s report as adopted by the District Board of Directors including design, preparation of plans and specifications, and construction management efforts.

SCHEDULE

INITIATION AND COMPLETION DATES

July 1997 to June 2007
(Design and Construction only.)

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning											
	Design	▨										
	Construction		■	■	■	■						

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
932828	STWTP Improvement, Stage 2	53,311	1,684	1,746	1,682	767	265	0	0	0	0	0	0	59,454

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

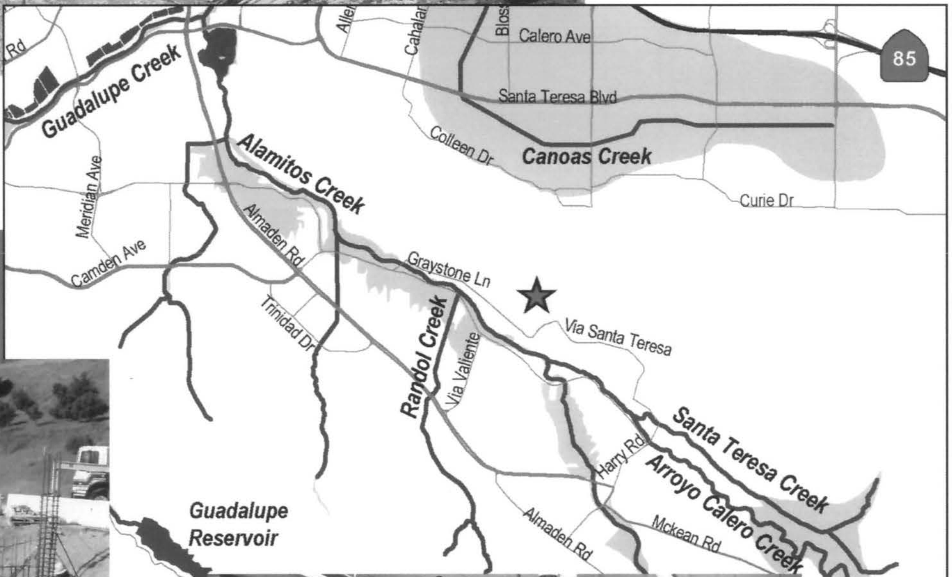
POTENTIAL COST SHARING

None

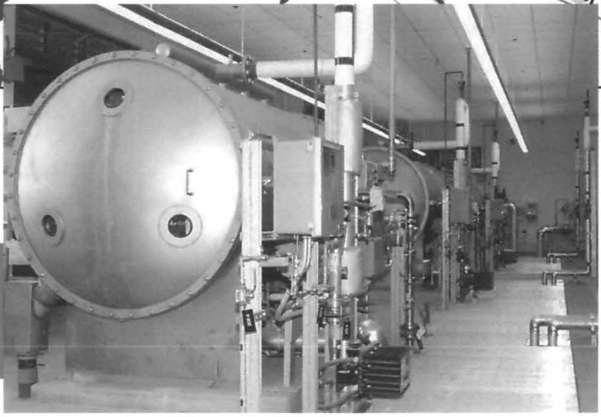
OPERATING BUDGET IMPACTS

The estimated operating cost impact after completion of Stage 2 is $ 1,048,100 annually (2002 dollars).

Tie back and shotcrete shoring system to protect the site and workers during construction of the washwater clarification facility. Base slab reinforcing for the 40-foot deep structure has been installed.



Concrete is being placed for the base slab foundation of the sulfuric acid facility



Ozone generators will convert ozone for primary disinfection, rather than using chlorine. Similar generators will be installed at each of the three Water Treatment Plants.

Backup Disinfection

Project Number:
932829, 932831

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction for modification of existing STWTP clearwell and RWTP reservoir with post chlorination systems and baffles to provide for a backup to primary disinfection with ozone.

This work is being accomplished in the following jobs.
932829 STWTP Backup Disinfection
932931 RWTP Backup Disinfection

Ultra violet light disinfection units such as this may be installed at the water treatment plants.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to July 2005

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	▨										
Construction		■	■								

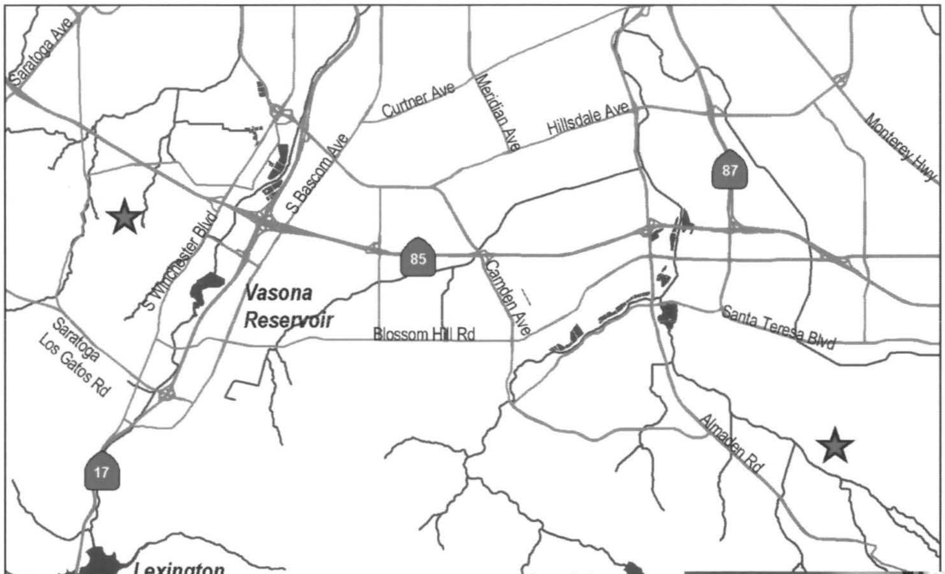
COST
(inThousands $)

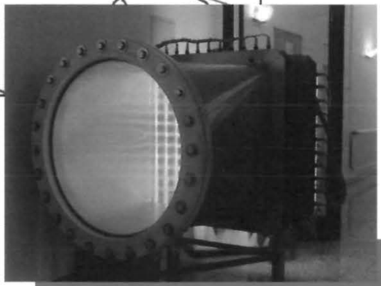
Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproprated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932829	STWTP Backup Disinfection	597	91	0	0	0	0	0	0	0	0	0	0	688
932931	RWTP Backup Disinfection	1,183	2,335	4,526	266	0	0	0	0	0	0	0	0	8,310
Total		1,780	2,426	4,526	266	0	0	0	0	0	0	0	0	8,998

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.





Ultra violet light module for disinfection of drinking water.

STWTP
Incompatible Materials

Project Number:
932830

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

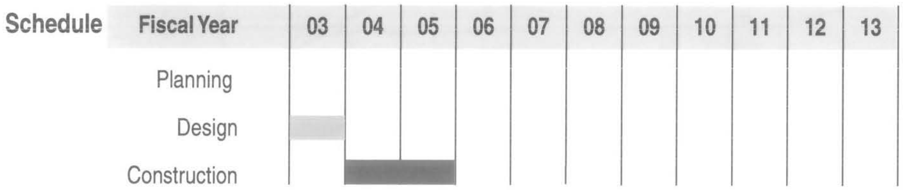
SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction management for adequate separation of incompatible materials at STWTP process chemical lines, chemical drainage lines and feed room.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to June 2005



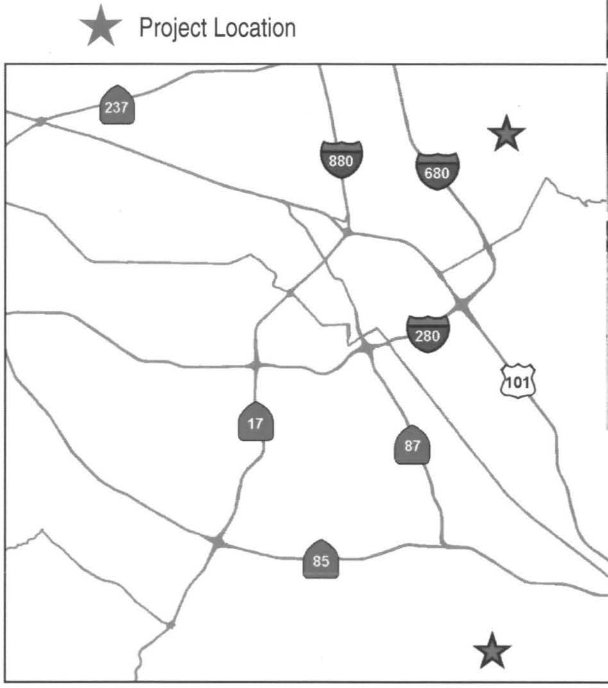
COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932830	STWTP Incompatible Materials	181	1,073	1,367	391	0	0	0	0	0	0	0	0	3,011

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

Incompatible chemical piping will be separated at the Santa Teresa Water Treatment Plant.



POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

RWTP Improvement
Stage 1

Project Number:
932925

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Rinconada Water Treatment Plant to comply with the disinfectant/disinfection by-products rule and interim enhanced surface water treatment rule while maintaining a safe and reliable system and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the closeout phase. The closeout phase includes: Project Management, Construction Contract Administration closeout activities, and preparation of As-Built drawings.

SCHEDULE

INITIATION AND COMPLETION DATES

July 1997 to October 2002

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	■										

Newly constructed building at Rinconada Water Treatment Plant houses Potassium Permanganate for the oxidation process

COST

(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	Newly Appropriated 05	Planned Budget Requests 06	07	08	09	10	11	12	13	Est. Total Cost
932925	RWTP Improvement, Stage 1	7,360	131	0	0	0	0	0	0	0	0	0	0	7,491

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

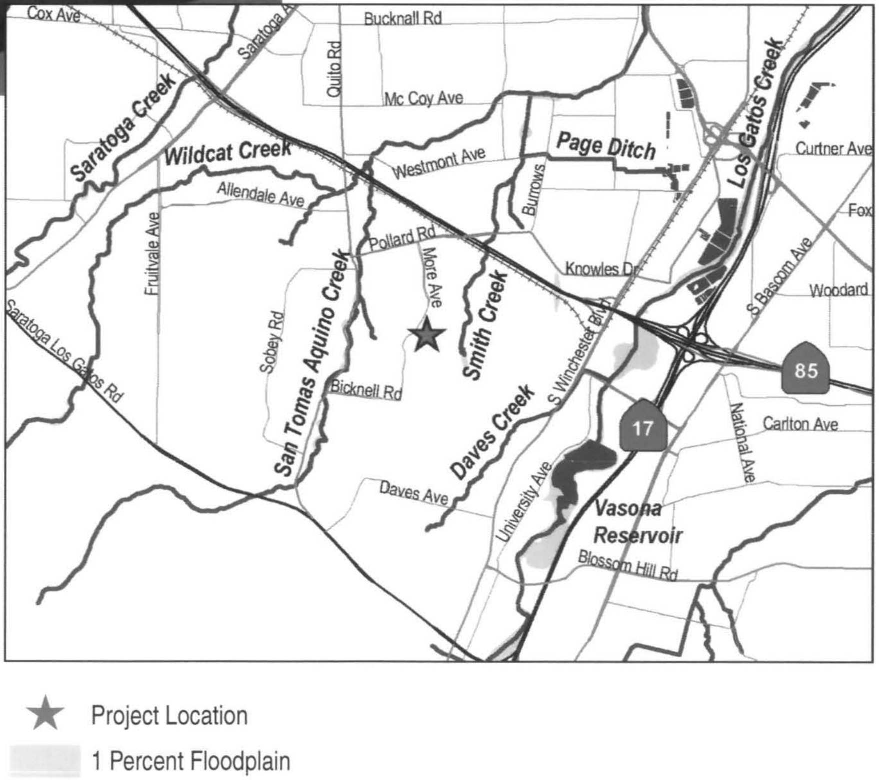
Potassium Permanganate and Powdered Activated Carbon buildings are located next to each other, near the upper sludge drying beds at the Rinconada Water Treatment Plant.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are depending on the utilization of the TWIP Stage 1 facilities by operations



RWTP Improvement Stage 2

Project Number:
932928

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.
- Increase the capacity of the Rinconada Water Treatment Plant by including the installation of a fifth upflow clarifier basin, mechanism, and associated piping and appurtenances.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for the design and construction of improvements recommended in the Engineer's report as adopted by the District Board of Directors including design, preparation of plans and specifications, and construction management efforts.

Future site of the new ozone structures and fifth clarifier.

SCHEDULE

INITIATION AND COMPLETION DATES

July 1997 to June 2007

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	▨										
Construction		■	■	■	■						

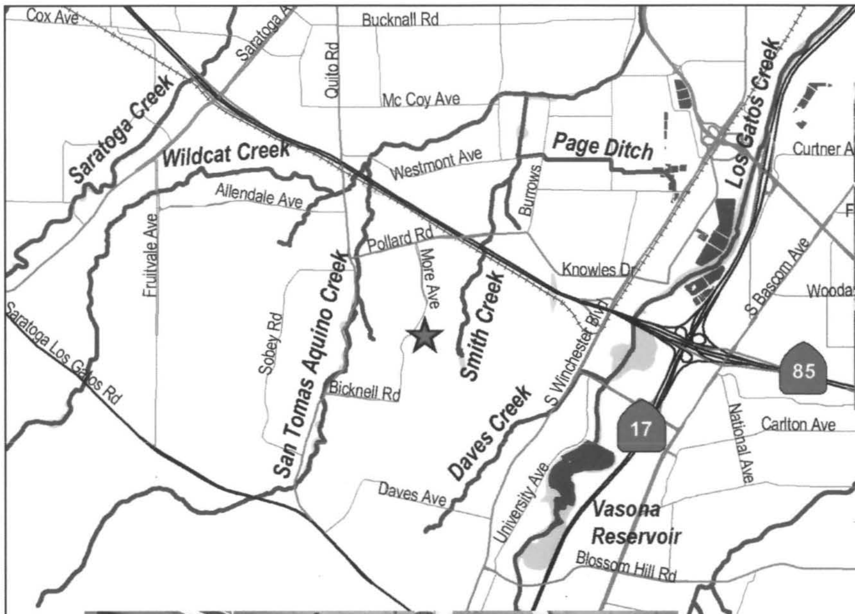
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
932928	RWTP Improvement, Stage 2	14,664	3,057	12,025	73,116	807	1,063	796	0	0	0	0	0	105,529

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

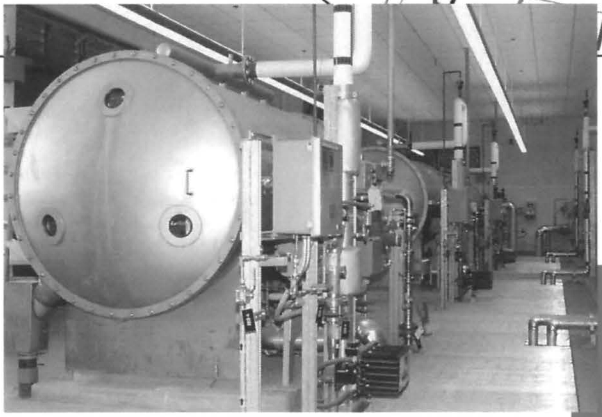
OPERATING BUDGET IMPACTS
The estimated operating cost impact after completion of Stage 2 is $ 1,145,600 annually (2002 dollars).



★ Project Location

▨ 1 Percent Floodplain

The existing piping and valving in the filter gallery will be modified for the new ozone and filter-to-waste systems.



Ozone generators will convert ozone for primary disinfection, rather than using chlorine. Similar generators will be installed at each of the three Water Treatment Plants.

RWTP
Plant Water System

Project Number:
932933

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

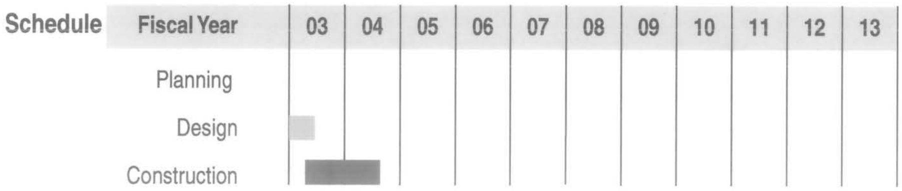
Work includes planning, design, and preparation of construction documents, and construction for providing a reliable plant water system at RWTP with appropriate reserve capacity to meet current and future demands.

This project will replace/upgrade the plant water system at Rinconada Water Treatment Plant to meet fire code and operations requirements.

SCHEDULE

INITIATION AND COMPLETION DATES

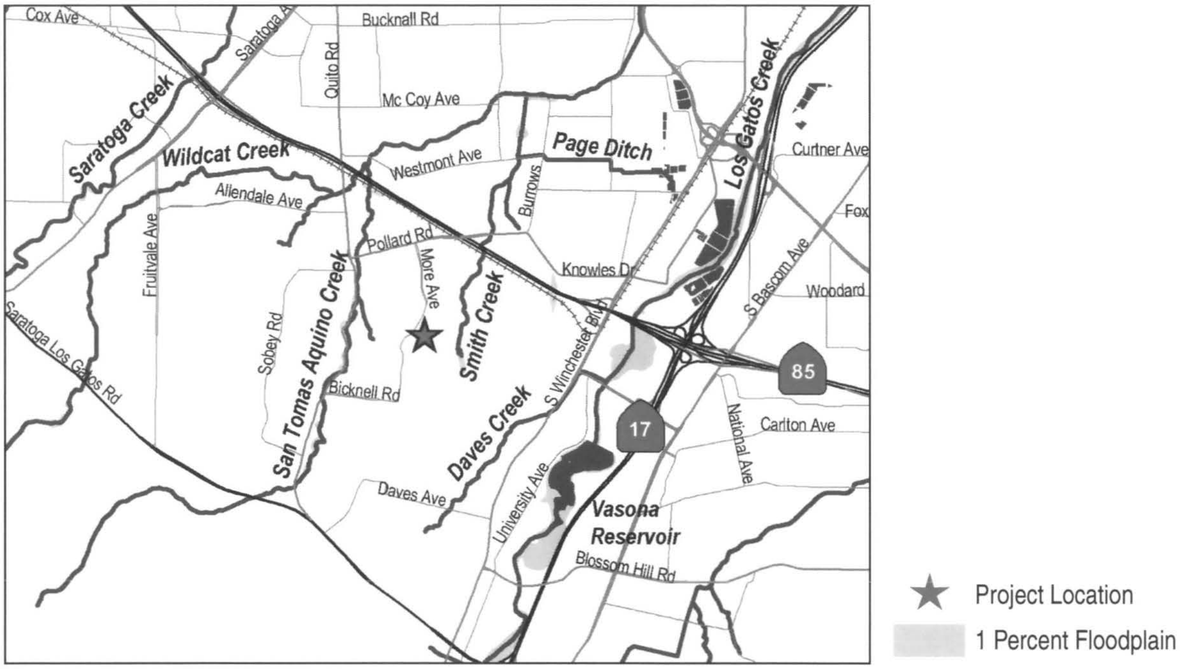
July 2001 to January 2004



COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appproprìated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932933	RWTP Plant Water System	3,478	24	112	55	0	0	0	0	0	0	0	0	3,669

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
This project, once completed, will result in decreased maintenance costs over the initial five years. Thereafter, the maintenance costs will be similar to the current. The operations costs will not significantly change.

RWTP Backup Generator System

Project Number:
932935

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Relocate the 1500 kW diesel generator and fuel tank from the temporary location in the parking lot to a permanent site on Rinconada campus
- Convert the rental containment to a permanent protective shelter and containment facility for the generator

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents and construction to meet the project objectives. Anticipated work includes the relocation of a 1500 kW generator and diesel fuel tank. Relocate the 1500 kW diesel generator and fuel tank from the temporary location in the parking lot to a permanent site on Rinconada campus. Conversion of the rental containment to a permanent protective shelter and containment facility for the generator.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2001 to July 2004

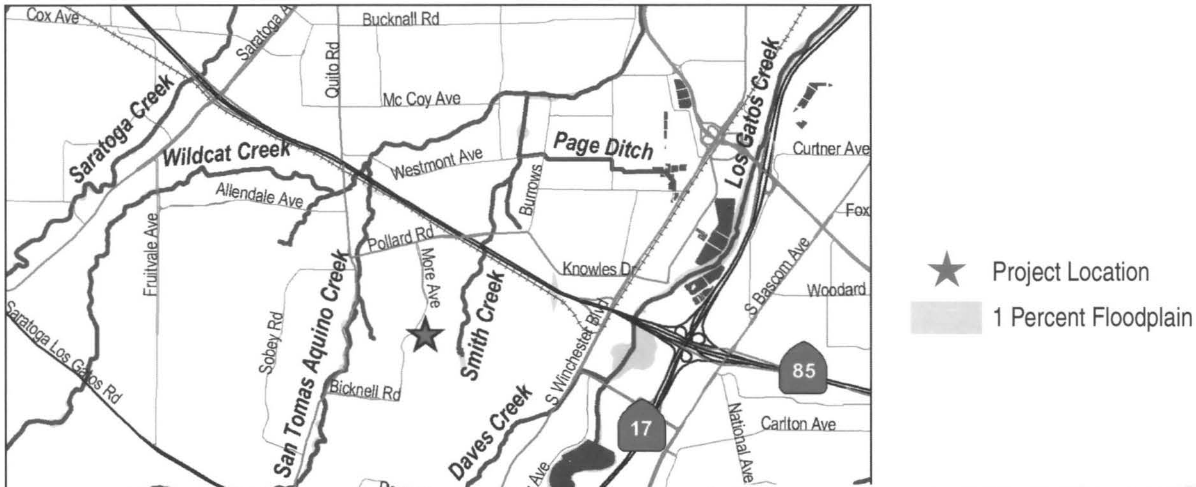
Schedule

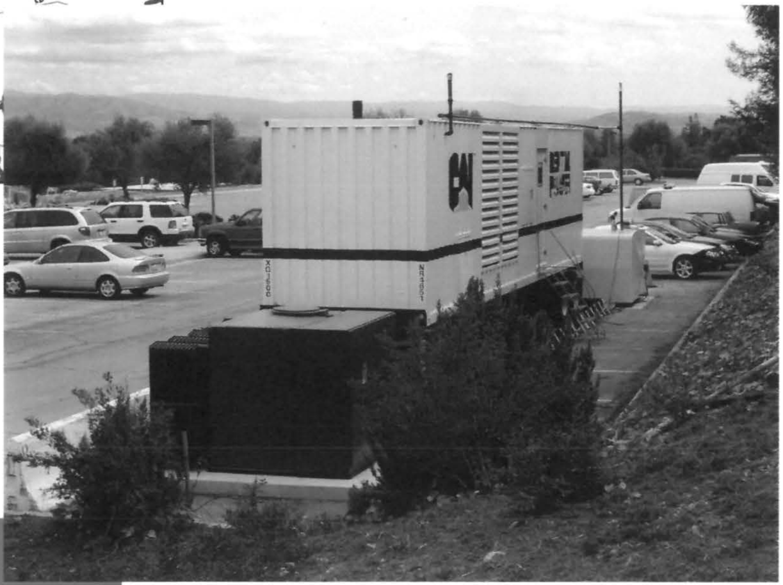
Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	░										
Construction		▓									

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932935	RWTP Backup Generator System	8	576	882	4	0	0	0	0	0	0	0	0	1,469

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.





Temporary location of generator in the Rinconada parking lot.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
Operating budget impacts will be determined in the near future.

RWTP Control System Trunk Cables

Project Number:
932942

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

Replace existing SCADA communication cable at Rinconada Water Treatment Plant to relieve unplanned system failures.

BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare specifications, purchase materials, contract for and manage installation of replacement cables.

SCHEDULE

INITIATION AND COMPLETION DATES

October 2003 to June 2004

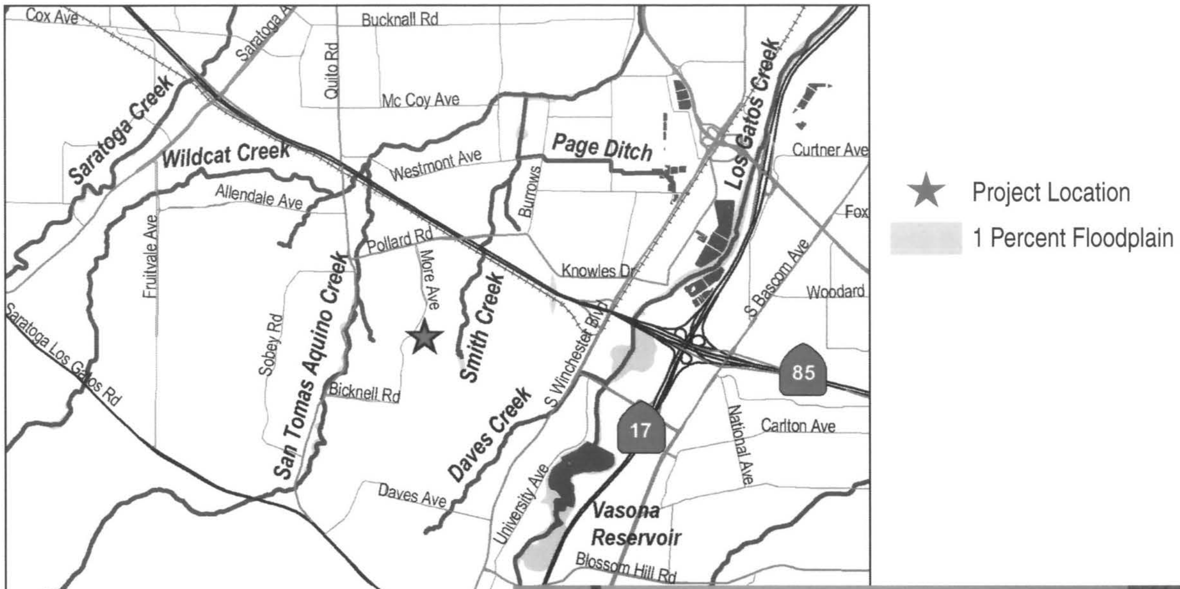
Schedule	03	04	05	06	07	08	09	10	11	12	13
Fiscal Year											
Planning		■									
Design		▨									
Construction		■									

COST

(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
932942	RWTP Control System Trunk Cables	0	0	184	0	0	0	0	0	0	0	0	0	184

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

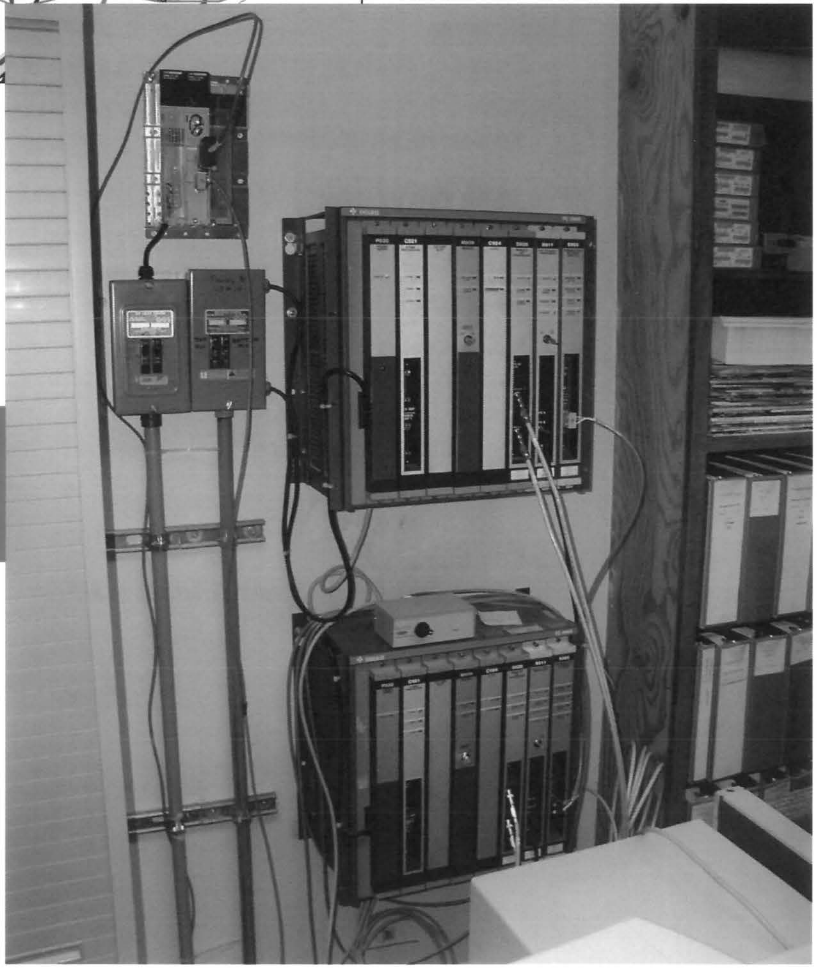


POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating budget impacts anticipated at this time.



RWTP trunk cable connecting to the primary and backup programmable logic controller.

New Water Quality Laboratory

Project Number:
934003

Sponsoring Division:
Water Utility Operations

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

- Select a site that will meet the building program needs.
- Design a facility that is in compliance with EPA guidelines and other applicable standards.
- Construct a laboratory that will meet the projected needs of the District for a 20-year horizon and fulfill the objectives approved by the Board on March 17, 1998:
  a. Monitor Treated Water to Ensure Standards are Met
  b. Monitor Within Treatment Plant for Process Control
  c. Monitor Sources Waters (surface water)
  d. Perform Specialized Studies Related to Surface Water Treatment
  e. Monitor Other District Water Quality Programs (Groundwater Source Protection, Nonpoint Source)
  f. Monitor Solids Such as Treatment Plant Sludge and Soils
  g. Analyze Treated and Source Water Samples for Water Retailers
  h. Analyze Water Samples for the Public (private well owners, etc.)

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."

SCOPE OF WORK

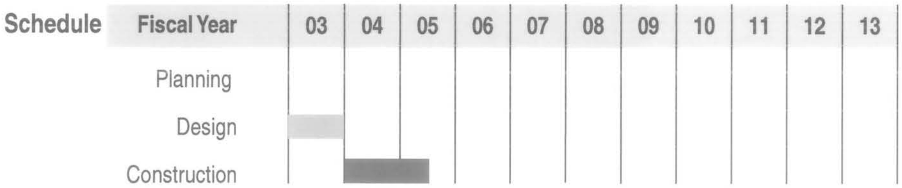
This project will rely primarily on consultant services to produce the following products:

- Engineer's Report that includes a laboratory building program that meets the objectives approved by the Board and includes a site feasibility study.
- CEQA documentation
- Design documents
- Construction Bid Packages
- Construction of a new laboratory

SCHEDULE

INITIATION AND COMPLETION DATES

August 2000 to December 2004

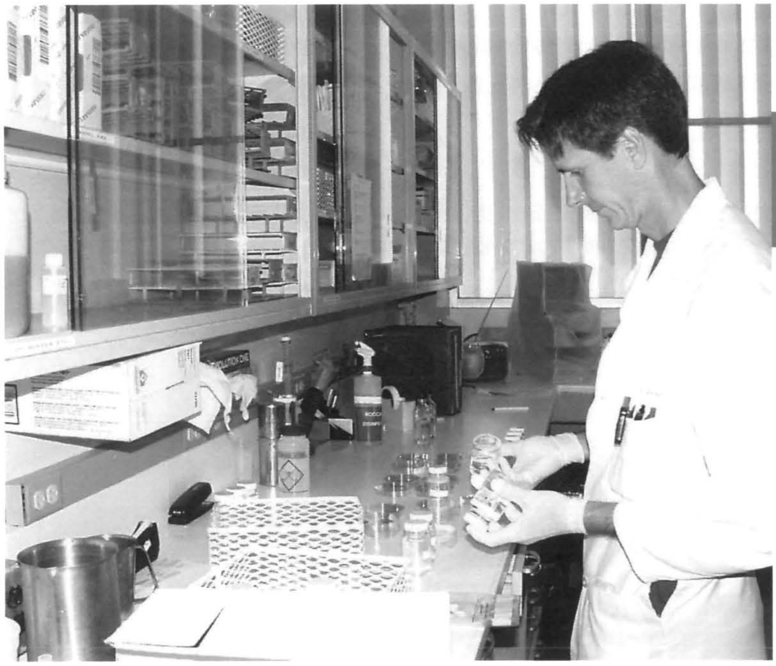


COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
934003	New Water Quality Laboratory	3,508	5,947	3,568	239	0	0	0	0	0	0	0	0	13,262

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Rendering of future New Water Quality Laboratory.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

RWTP Filter Inlet & Raw Water Inlet Valves

Project Number:
93C059

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Replacing and upgrading the four manually controlled upflow inlet valves and actuators and replace and upgrade six 48-inch filter inlet valves and actuators to provide for electrically actuated remote control from the RWTP operations control center.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2005 to June 2007

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning				■							
	Design				■							
	Construction					■						

COST

(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	Est. Total Cost
93C059	RWTP Filter Inlet & Raw Water Inlet Valves	0	0	0	0	217	866	0	0	0	0	0	0	1,084

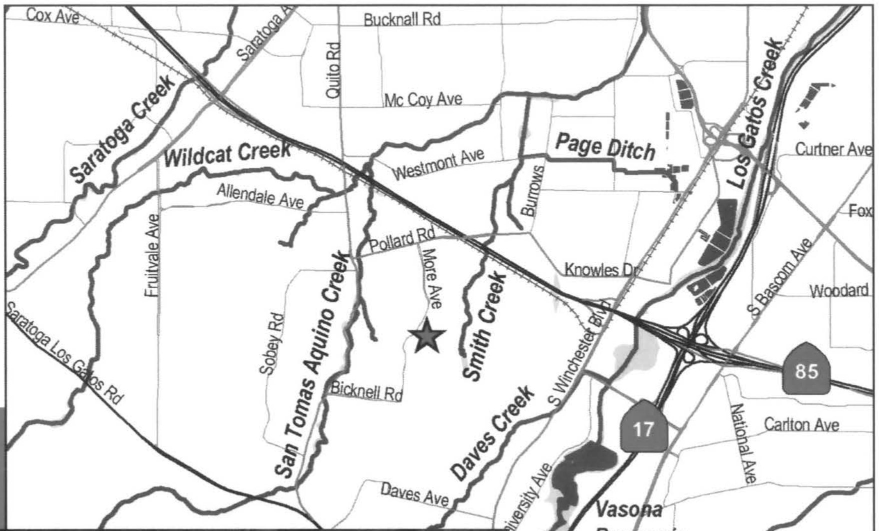
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



One of four manually operated valves on 48" line planned for replacement and upgrade.

Treatment Plant Filter Backwash Aid

Project Number:
93C060

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work at PWTP, STWTP and RWTP includes planning, design, preparation of construction documents, and construction at all three treatment plants for:

- modifying pipe and valve to reduce air entrainment in the filter backwash process.
- adding chemical feed pipes, metering pumps at injection points to aid the PWTP filter backwashing process.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2005 to June 2009

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning				■							
Design					■						
Construction						■	■				

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
93C060	Treatment Plant Filter Backwash Aid	0	0	0	0	173	200	580	500	0	0	0	0	1,453

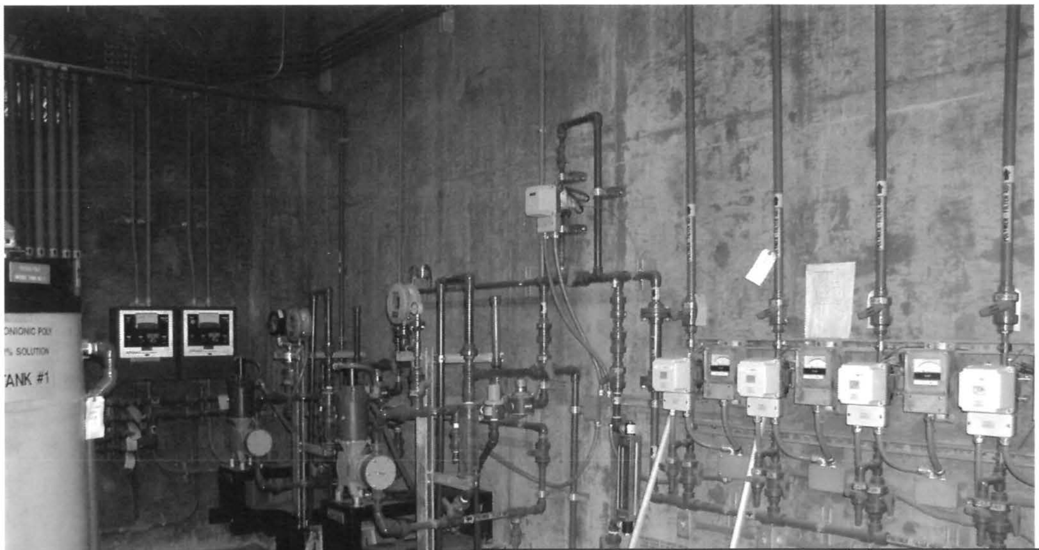
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

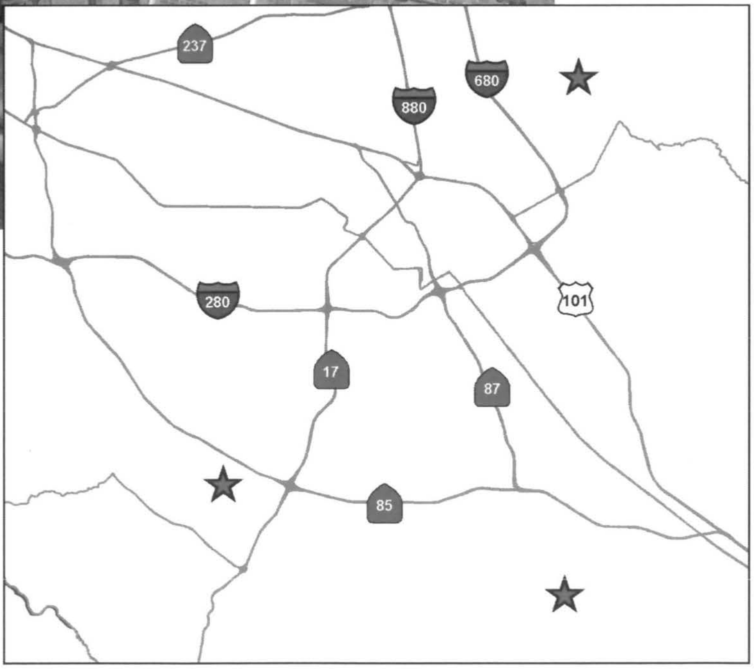
None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.



The new Backwash Aid with feed and piping system at the three treatment plants would look similar to this feed system.



★ Project Location

STWTP Local Backwash Control

Project Number:
93C062

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents and construction for STWTP local backwash control stations to allow operators to control backwash sequencing at the filters rather than only remotely from the operator's console.

The project will install local filter backwash control stations similar to the one shown below at the Rinconada WTP.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2007
(Planning phase only)

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning					■						
	Design											
	Construction											

COST
(inThousands $)

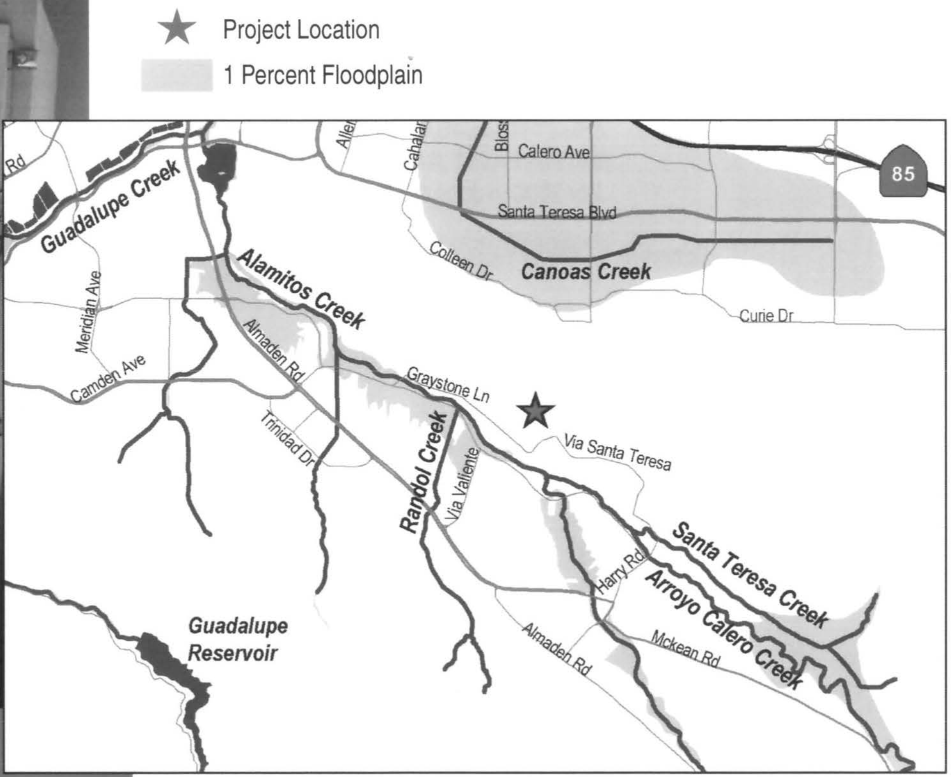
		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
93C062	STWTP Local Backwash Control	0	0	0	0	0	338	0	0	0	0	0	0	338

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

Local controls allow operator to start, stop and adjust the steps in the filter backwash (cleaning) process based upon visual observations of the process.



Caustic Soda Storage

Project Number:
93C080, 93C081

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.
- Provide a safe and productive environment for employees.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for increasing the storage capacity for the PWTP and RWTP Caustic Soda Tanks.

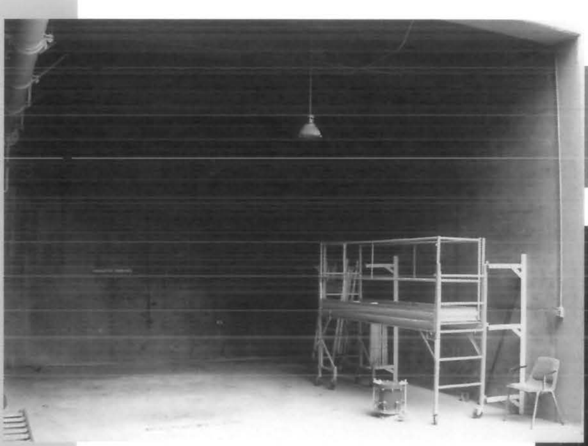
SCHEDULE

INITIATION AND COMPLETION DATES

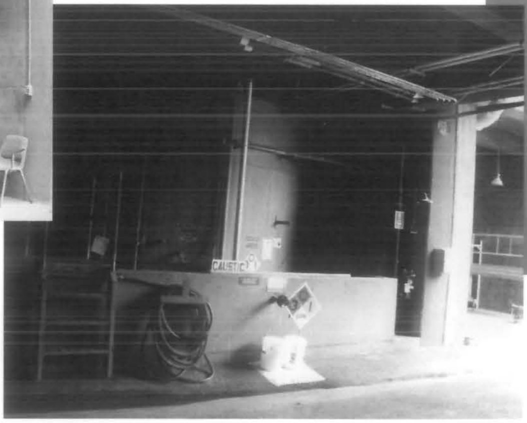
July 2006 to June 2010

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning					■						
Design						■					
Construction							■	■			



Empty alcove designated for new Caustic Soda chemical storage tank at Rinconada Water Treatment Plant.



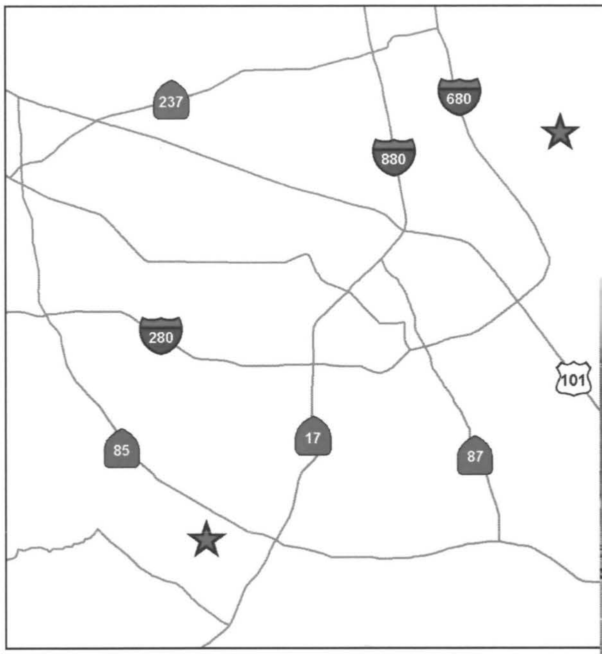
Existing Caustic Soda storage tank at Rinconada Water Treatment Plant.

COST

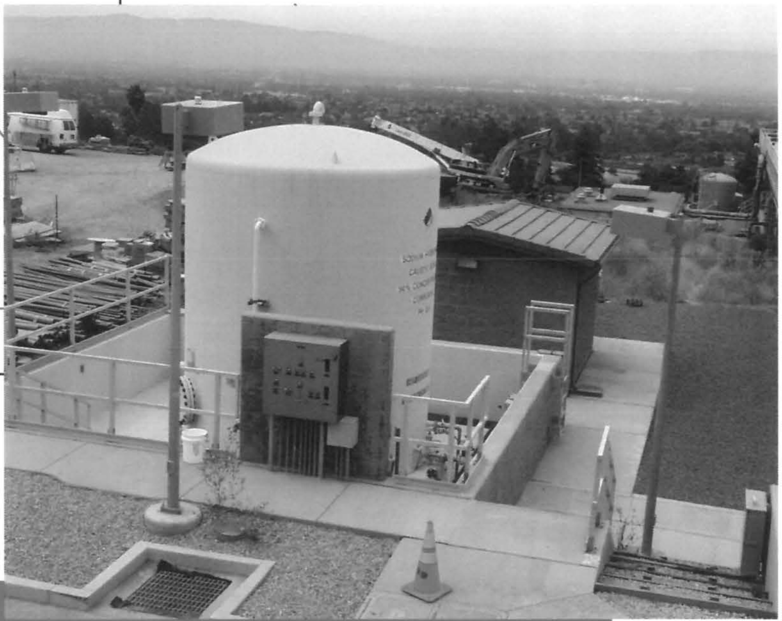
(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	Est. Total Cost
93C080	PWTP Caustic Soda Storage	0	0	0	0	0	199	577	0	0	0	0	0	776
93C081	RWTP Caustic Soda Storage	0	0	0	0	0	0	421	505	500	0	0	0	1,426
Total		0	0	0	0	0	199	998	505	500	0	0	0	2,202

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location



Caustic Soda Chemical Storage Tanks at Penitencia Water Treatment Plant.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

RWTP Filter Cell Isolation Valves

Project Number:
93C084

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

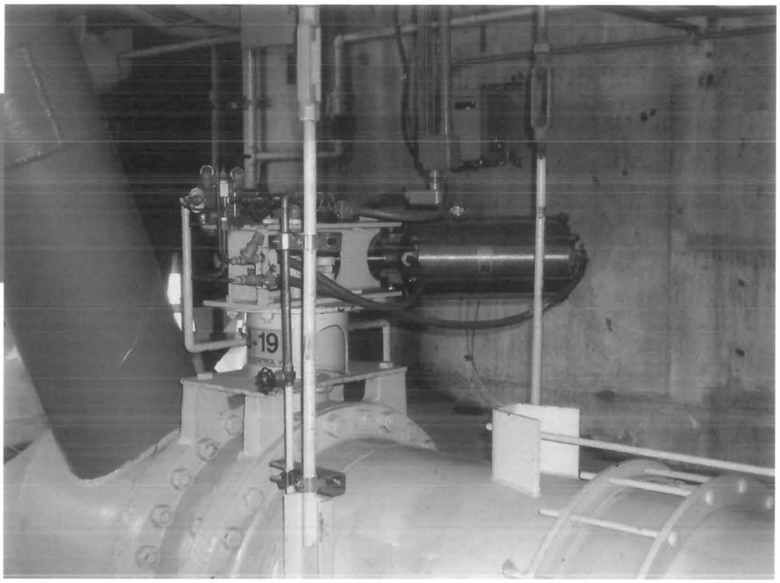
- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Replacing and upgrading six 30-inch filter cell isolation valves and actuators to provide for electrically actuated remote control from the RWTP operations control center.



One of six valves on 30" line planned for replacement and upgrade.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2008

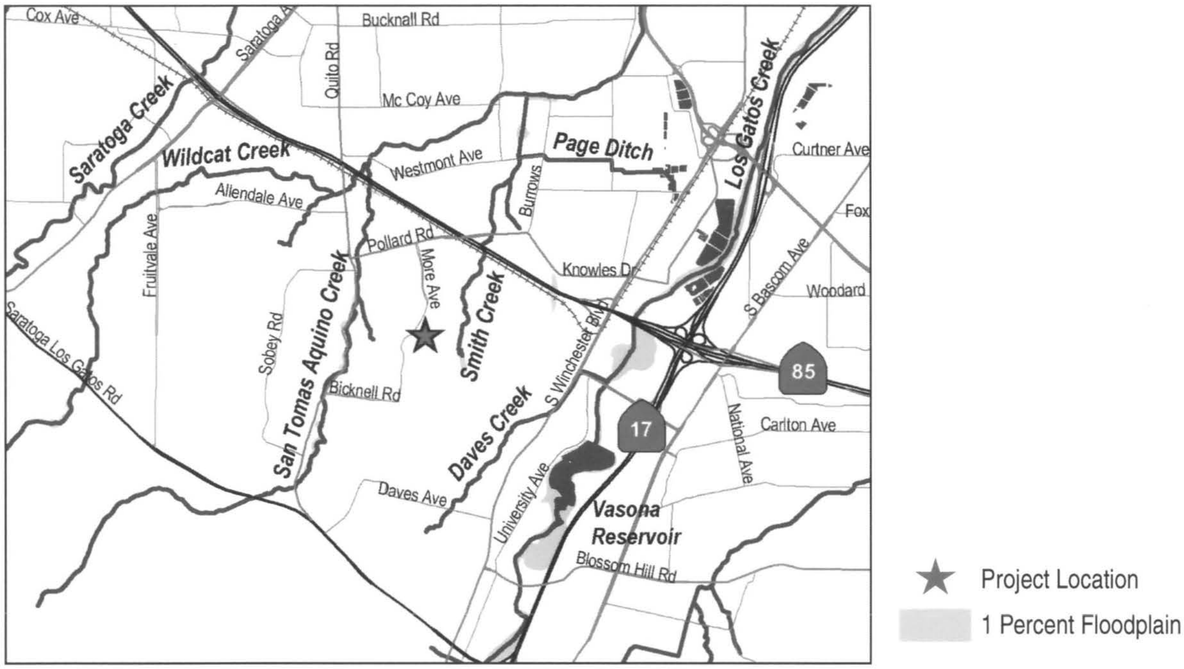
Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning					■						
Design					■						
Construction						■					

COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
93C084	RWTP Filter Cell Isolation Valves	0	0	0	0	0	90	261	0	0	0	0	0	351

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

RWTP Chemical Storage

Project Number:
93C085

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

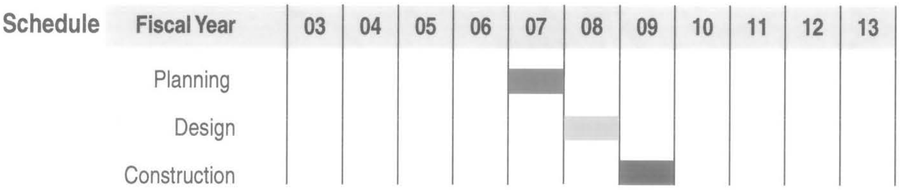
SCOPE OF WORK

Work includes the planning, design, preparation of construction documents and construction for modifying the RWTP chemical storage area to comply with seismic standards.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2009



Drive way access to chemical storage tanks at Rinconada Water Treatment Plant.

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
93C085	RWTP Chemical Storage	0	0	0	0	0	621	900	900	0	0	0	0	2,421

* Estimated as of:5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

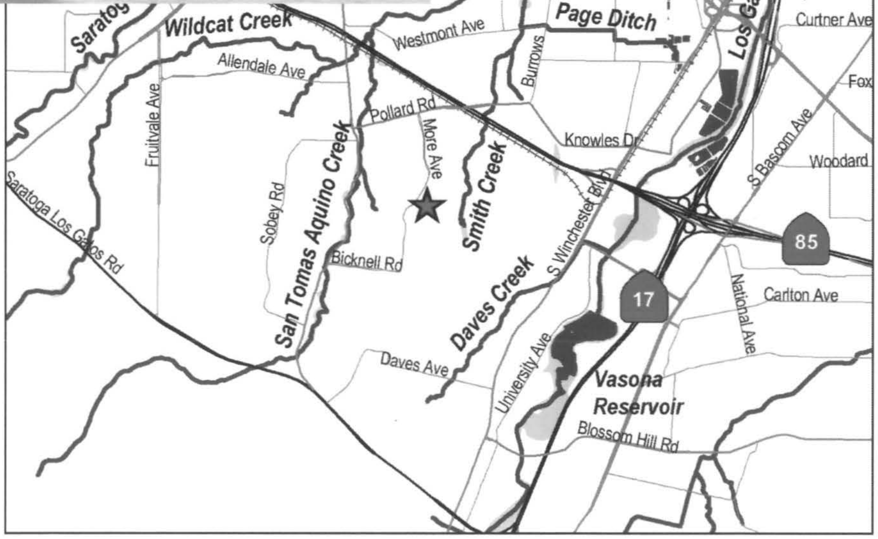
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

Other chamical storage tanks at RWTP.



★ Project Location

▨ 1 Percent Floodplain

RWTP Building Modifications

Project Number:
93C086

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

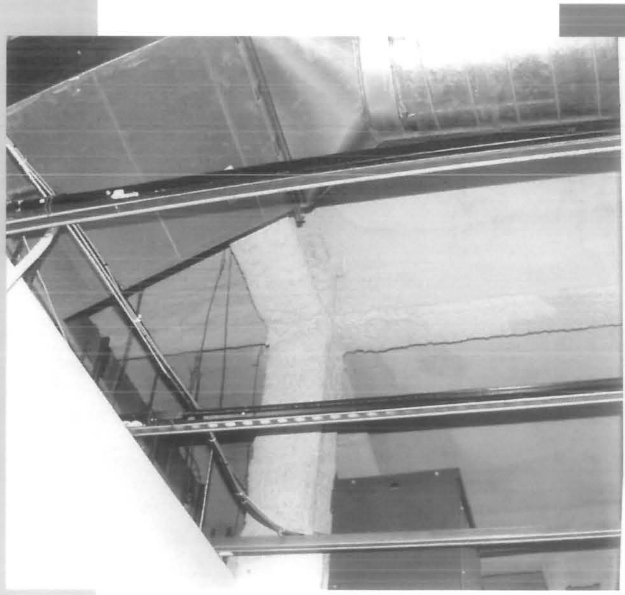
Modify the RWTP building interior to provide a healthy and productive work environment for employees.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2010

Schedule Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning					▨						
Design						▨					
Construction							▨	▨			



Rinconada Water Treatment Plant building interior. Asbestos covered I–beams located within the building are one of the issues being addressed by this project.

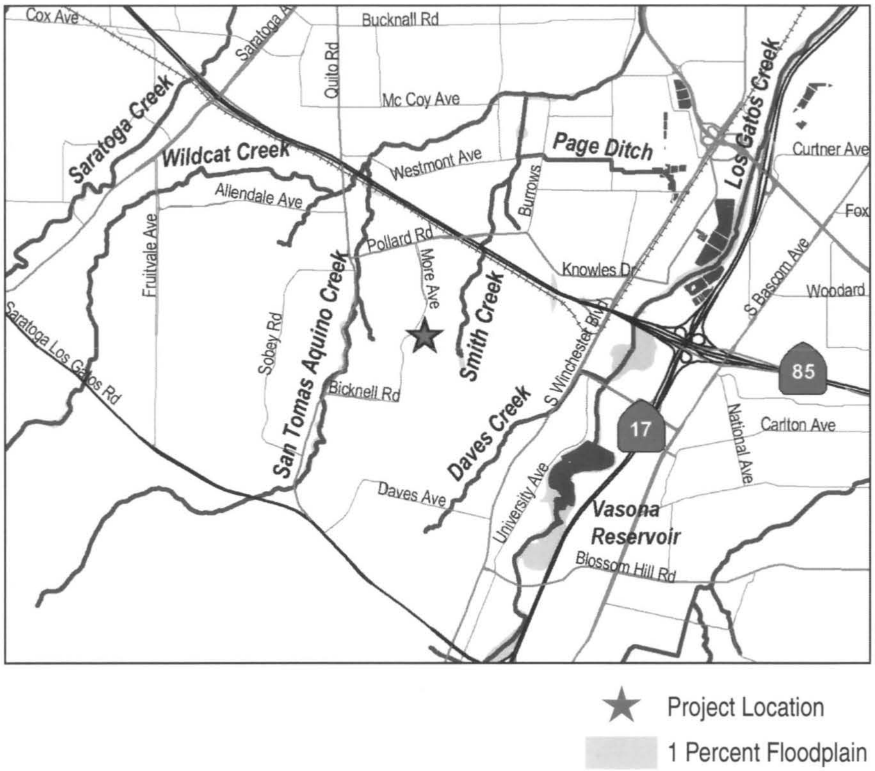
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
93C086	RWTP Building Modifications	0	0	0	0	0	600	740	2,500	2,860	0	0	0	6,700

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None.

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.



RWTP BL–1 Valve Vault

Project Number:
93C115

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Evaluate design alternatives to relieve difficult access, provide for a reliable valve and provide an isolation or "guard" valve.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

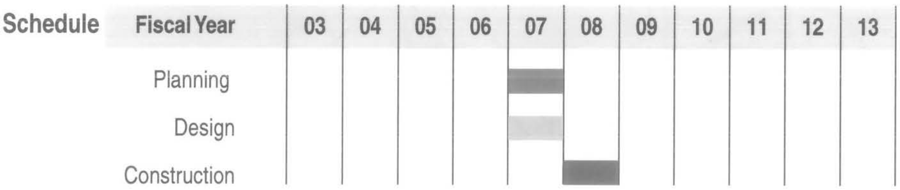
SCOPE OF WORK

Planning, design and construction at RWTP Valve BL-1 and its appurtenances to improve reliability and accessbility.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2008



Access to this underground enclosure is located in the middle of a driveway used by large 18–wheelers to access other areas of the plant.

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
93C115	RWTP BL-1 Valve Vault	0	0	0	0	0	200	800	0	0	0	0	0	1,000

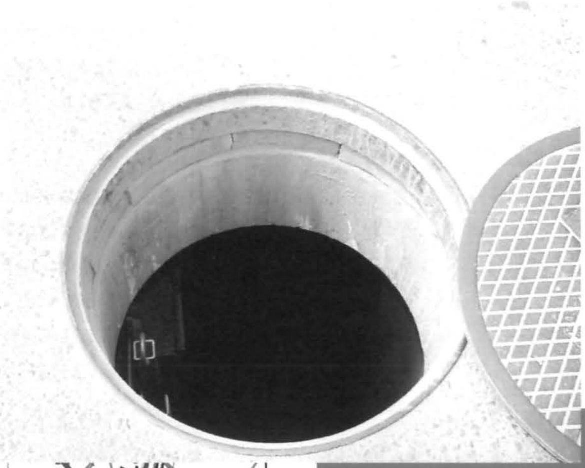
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

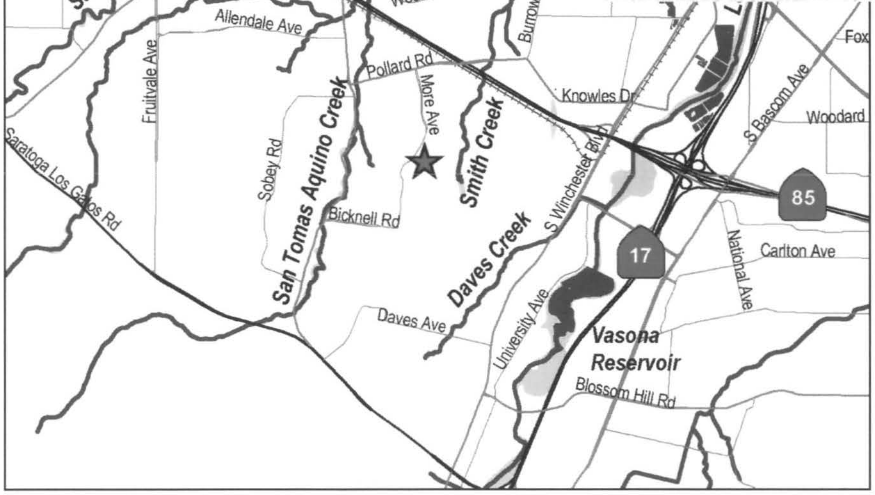
None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.



Only qualified District personnel are allowed into the valve vault.



★ Project Location

▨ 1 Percent Floodplain

RWTP Discharge Valves Actuator Replacement

Project Number:
93C116

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Replace out of date actuators with new equipment to integrate valve operations with improvements resulting from other projects.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare planning, design and construction of valve actuator replacements at:

1. B-44/ 36-inch More Avenue Service Pump Discharge to More Reservoir
2. B-45/ 36-inch More Avenue Service Pump discharge to Rinconada Reservoir
3. B-80/ 30-inch Discharge for Booster No. 1 service to Rinconada Reservoir
4. B-42/ 30-inch services either More Avenue or Rinconada Reservoir
5. B-40/ 30-inch discharge from backwash pump-services Rinconada Reservoir

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2007

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning					■						
Design					▨						
Construction					■						

COST
(inThousands $)

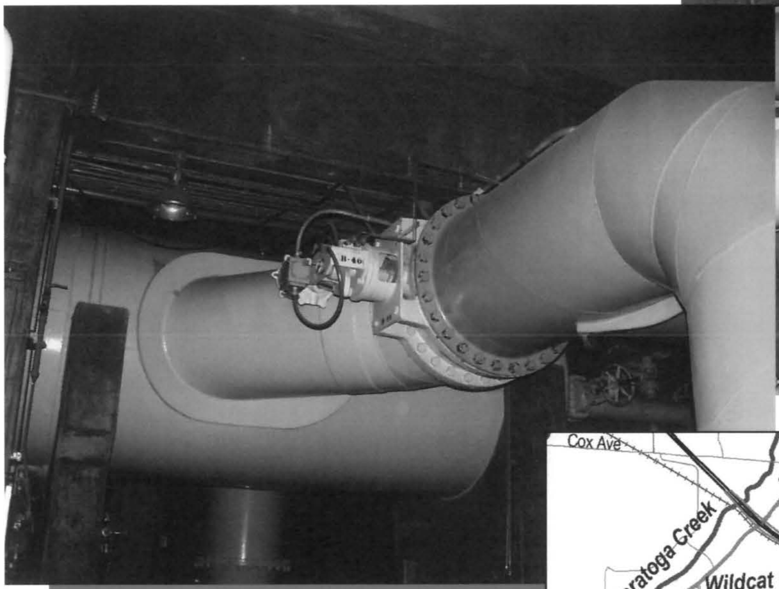
		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
93C116	Discharge Valves Actuator Replacement	0	0	0	0	0	88	0	0	0	0	0	0	88

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

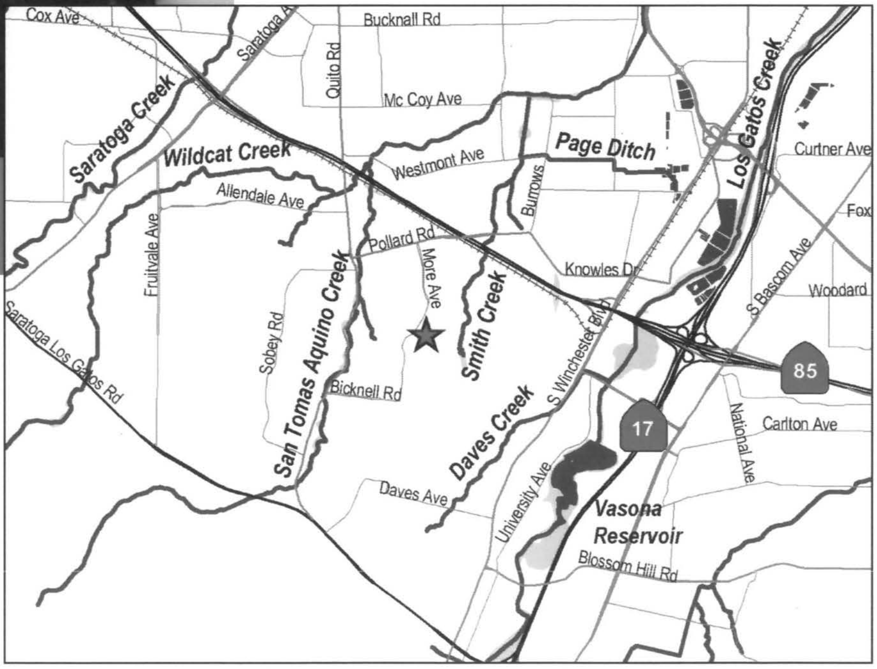
POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined during the planning phase.

B–39 30–inch pipe at Rinconada Water Treatment Plant.



B–40 30–inch discharge pipe from the backwash pump services Rinconada Reservior.



★ Project Location
▨ 1 Percent Floodplain

RWTP Air Wash System & Backwash Valves

Project Number:
93C117

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Replace air wash system and backwash valves to provide reliable treatment.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

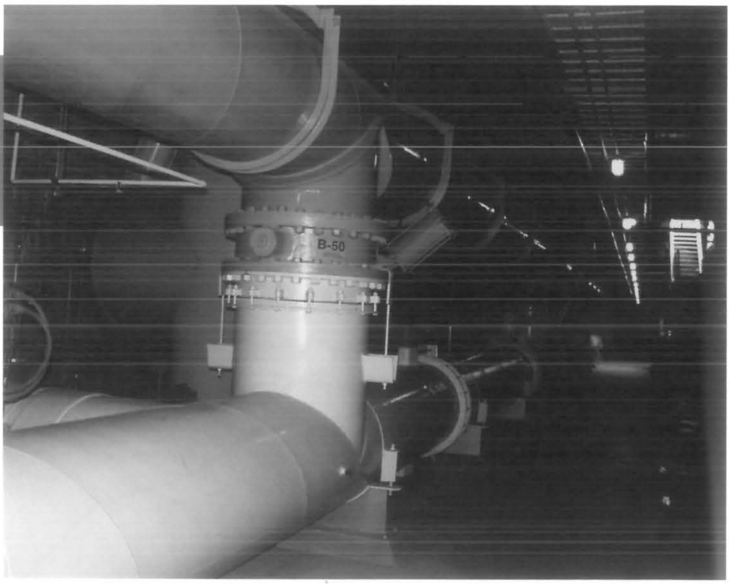
Provide planning, design and construction for replacement of air wash system including pumps, motors, piping and 12 16-inch and 2 6-inch valves, and replacement of 12 30-inch backwash valves and actuators.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2006 to June 2008

Schedule	03	04	05	06	07	08	09	10	11	12	13
Fiscal Year											
Planning					■						
Design					■						
Construction						■					



Backwash valve at Rinconada Water Treatment Plant.

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
93C117	RWTP Air Wash System & Backwash Valves	0	0	0	0	0	76	880	0	0	0	0	0	956

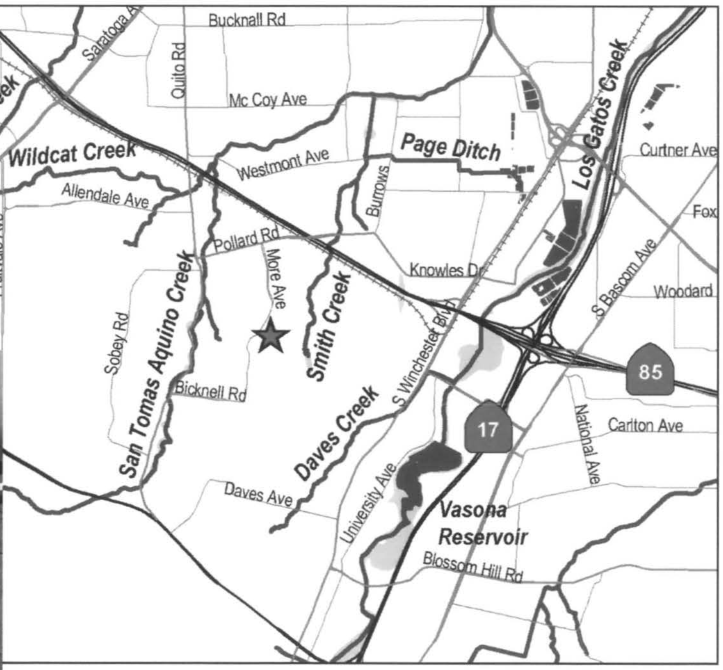
* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

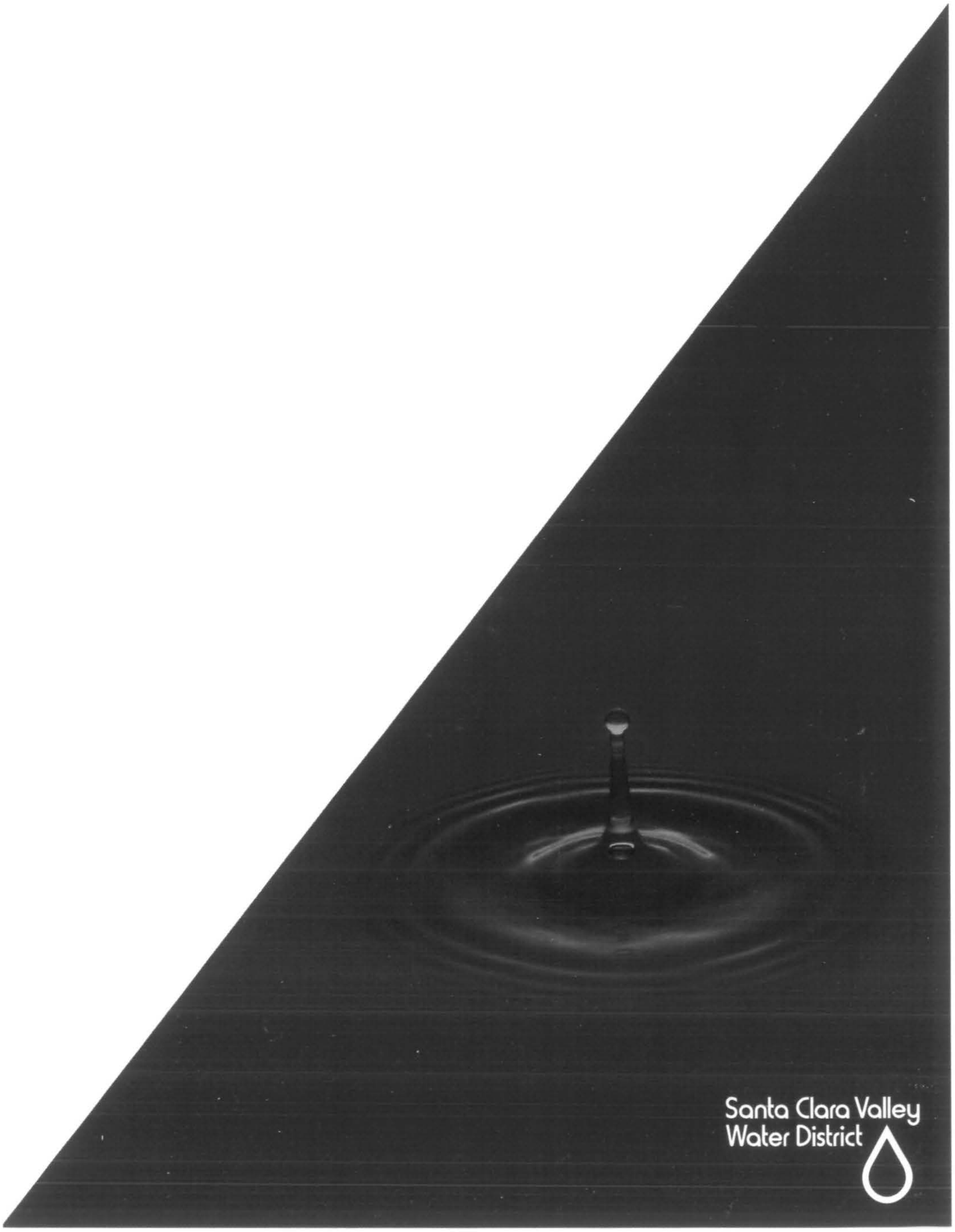


B–68 Air Wash System (grey vertical pipe on right) and B–48 Backwash Valve (green vertical pipe on left).

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Treated Water Transmission & Distribution Cost Center



Santa Clara Valley
Water District

TREATED WATER TRANSMISSION & DISTRIBUTION

COST CENTER OVERVIEW

The Treated Water Transmission and Distribution Cost Center contains all the anticipated expenditures, including capital investments, related to the distribution of treated water to District's customers, the retailers of Santa Clara County. The infrastructure includes treated water reservoirs, pumping plants, pipelines, injection well, and turnouts. The major services include treated water transportation and delivery, and operation of San Francisco Water Department Intertie facility.

CAPITAL IMPROVEMENT PROGRAM

As stated in the Program Overview, the Utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for treated water transmission and distribution infrastructures is complete.

MAJOR PROJECTS - COMPLETED

- Milpitas Pipeline Relocation
- San Tomas Injection Well
- Treated Water T&D Instrument Upgrade
- SCVWD/SFWD Intertie

MAJOR PROJECTS - CURRENT

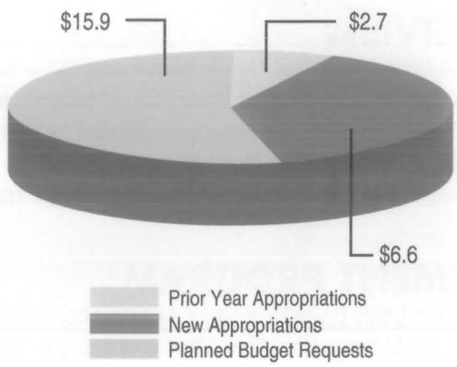
- Rinconada Reservoir Roof Rehabilitation
- Snell Pipeline Cathodic Protection
- Penitencia Delivery Main Modulating Valve
- Security Improvement

MAJOR PROJECTS - FUTURE

- Treated Water Air and Vacuum Valve
- West side Distribution System Study
- West Pipeline Line Values
- Parallel East Pipeline Tie-in

Treated Water Transmission & Distribution Cost Center
Estimated Capital Investment
Fiscal Year 2004–Fiscal Year 2013

Total: $25.2 million



FINANCIAL OVERVIEW

The estimated ten-year capital investments, to complete current and future capital projects came from prior years appropriations, new appropriations for FY 2004 and FY 2005, and planned budget requests beyond FY 2005.

COST

Current & Future Capital Projects
(in Thousands $, present worth)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Projected Funding Needs								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
940803	Treated Water T & D Instrument Upgrade	1,466	588	364	12	0	0	0	0	0	0	0	0	2,400
940805	Security Improvement	0	0	379	739	4,452	0	0	0	0	0	0	0	5,570
941901	SCVWD SFWD Intertie	3,236	98	0	0	0	0	0	0	0	0	0	0	3,334
943702	Treated Water Distribution Flow Meter	0	0	179	350	0	0	0	0	0	0	0	0	529
943703	DHS Compliance, Treated Water System	0	0	310	1,302	3,152	601	0	0	0	0	0	0	5,365
943801	PWTP Modulating Valve	4,197	(64)	151	21	0	0	0	0	0	0	0	0	4,305
945002	Rinconada Reservior Roof Rehabilitation	687	1,901	2,630	163	0	0	0	0	0	0	0	0	5,380
948402	Snell PL Cathodic Protection	124	191	12	0	0	0	0	0	0	0	0	0	327
94C120	West Side Distrubtion System Study	0	0	0	0	0	0	300	200	0	0	0	0	500
94C121	West Pipeline Line Valves	0	0	0	0	0	0	0	285	188	1,891	0	0	2,364
94C122	Parallel East Pipeline Tie-in	0	0	0	0	0	0	167	527	2,035	0	0	0	2,729
	Total	9,710	2,683	4,025	2,587	7,604	601	467	1,012	2,223	1,891	0	0	32,803
	Total (with inflation)	9,710	2,683	4,025	2,587	8,309	676	541	1,208	2,734	2,396	0	0	34,869
	Capital Investment		2,683	6,612		15,865								25,159

* Estimated as of: 5/31/03. Estimated Actuals include project expenditures and encumbrances.

Instrument Upgrade

Project Number:
940803

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Ensure safe, reliable, and efficient operation and monitoring of all treated water transmission and distribution facilities on a real time basis.
- Upgrade the SCADA system for four Westside treated water turnouts; Valco, Mann, Cox and Sunnyvale.
- Replace aging equipment that cannot be maintained because of unavailability of spare parts.
- Document as-built drawings for all treated water site upgrades.

BENEFITS

Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

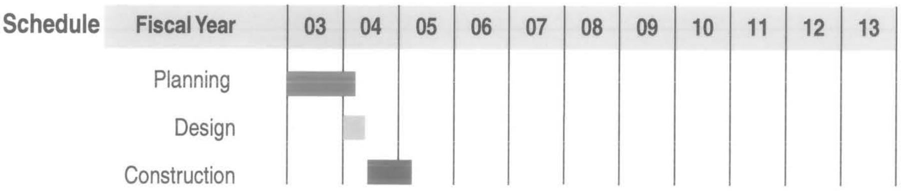
This project provides hardware and software improvements to SCADA sites of the treated water transmission and distribution system.

Provides for PLC and instrument upgrade for four Westside treated water turnouts. Scope consists of installation of four panels at the turnouts of Valco, Mann, Cox and Sunnyvale, completion of markup drawings for the four sites, final testing and inspection, and completion of all required as-built drawings for these treated water turnout sites.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2002 to July 2004

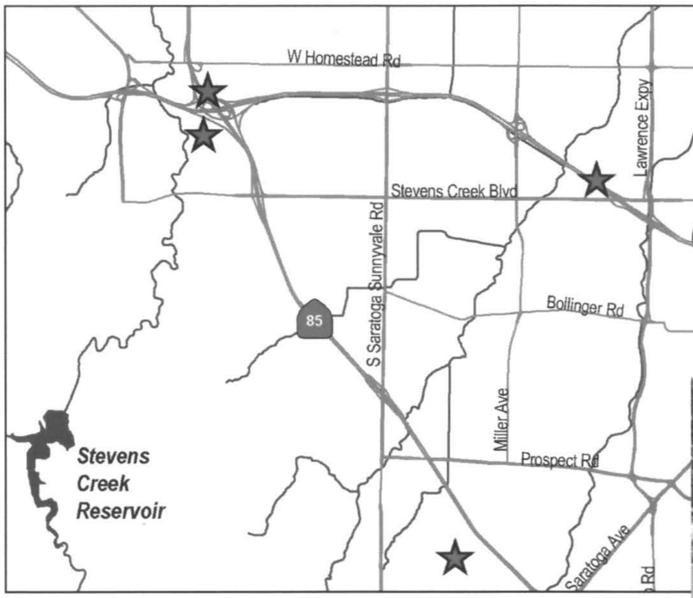


PLC cabinet at Sunnyvale/ Barranca Turnout.

COST
(inThousands $)

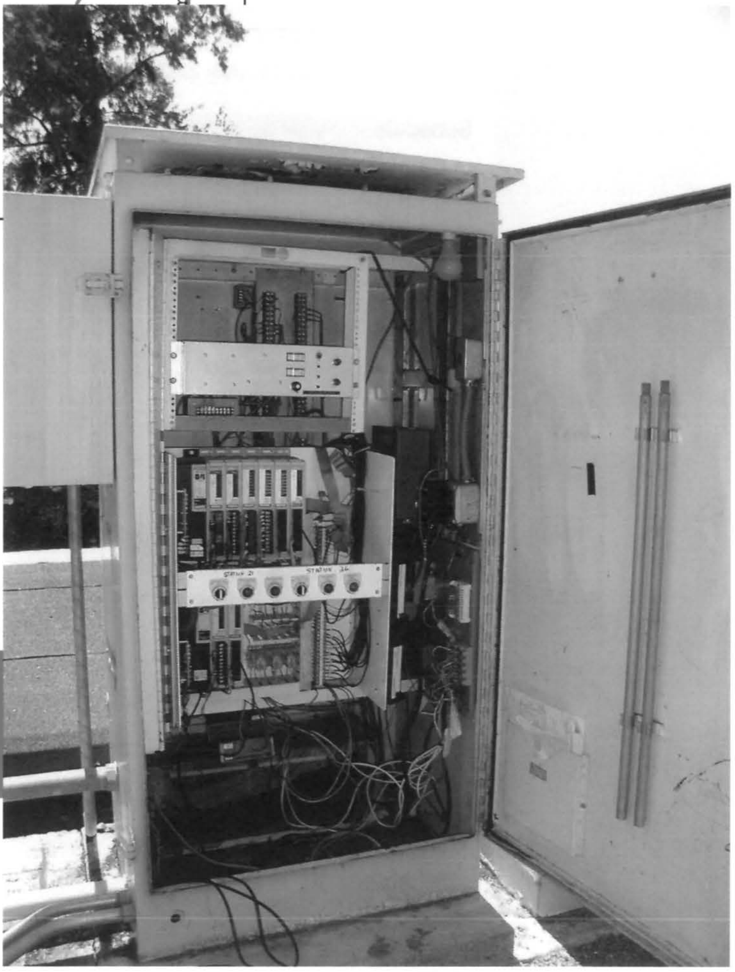
Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Apppropriated 04	05	Planned Budget Requests 06	07	08	09	10	11	12	13	Est. Total Cost
940803	Treated Water Instrument Upgrade	1,466	558	364	12	0	0	0	0	0	0	0	0	2,400

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
No operating budget impacts are anticipated from the construction of this project.



This PLC cabinet is one of four treated water turnouts scheduled for replacement in 2003.

Security Improvement

Project Number:
940805

Sponsoring Division:
Water Utility Operations

Project Manager:
Patrick Stanton

OVERVIEW

OBJECTIVES

Improve security and reduce terrorist threats to water service reliability.

BENEFITS

Policy E-2, "There is a healthy and safe environment for residents and visitors."

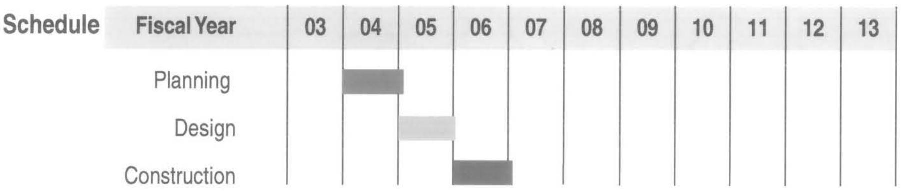
SCOPE OF WORK

Plan, design and construct short term security improvements to District Water Utility facilities. This work would be initiated after completion of Phase 1, Security Vulnerability Assessment, of the Regional Water Reliability Project (910408).

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to July 2006



COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
940805	Security Improvement	0	0	379	739	4,452	0	0	0	0	0	0	0	5,570

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

Security inspection of vehicles entering Penitencia Water Treatment Plant.

SCVWD and SF Water Department Intertie

Project Number:
941901

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

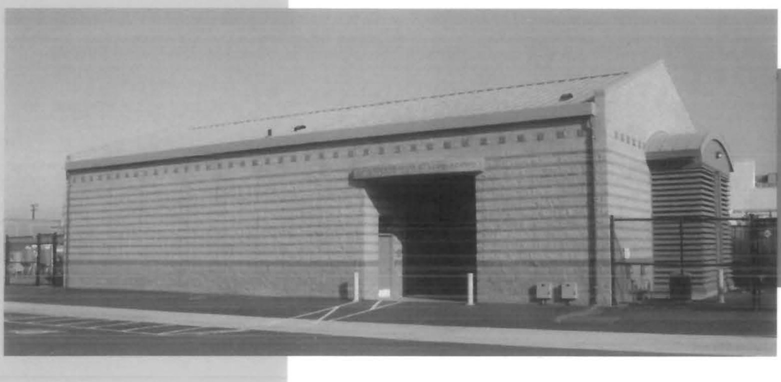
To provide a connection between the Milpitas Pipeline and San Francisco Water Department's Bay Division Pipelines 3 and 4 to enable the exchange of treated water between the two agencies in the event of a major facility failure or other outage in either system, both planned and unplanned.

BENEFITS

- Policy E-2, Article 1.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy E-2, Article 2.1.1 - "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."
- Policy E-2, Article 2.1.4 - "There are a variety of water supply sources."

SCOPE OF WORK

The project is in the closeout phase. Work includes closing the cost share agreement once SFWD closes the construction agreement and finalizes the project cost.



San Francisco Water Department and Santa Clara Valley Water District Intertie Pump Station Building

SCHEDULE

INITIATION AND COMPLETION DATES

July 1994 to June 2003

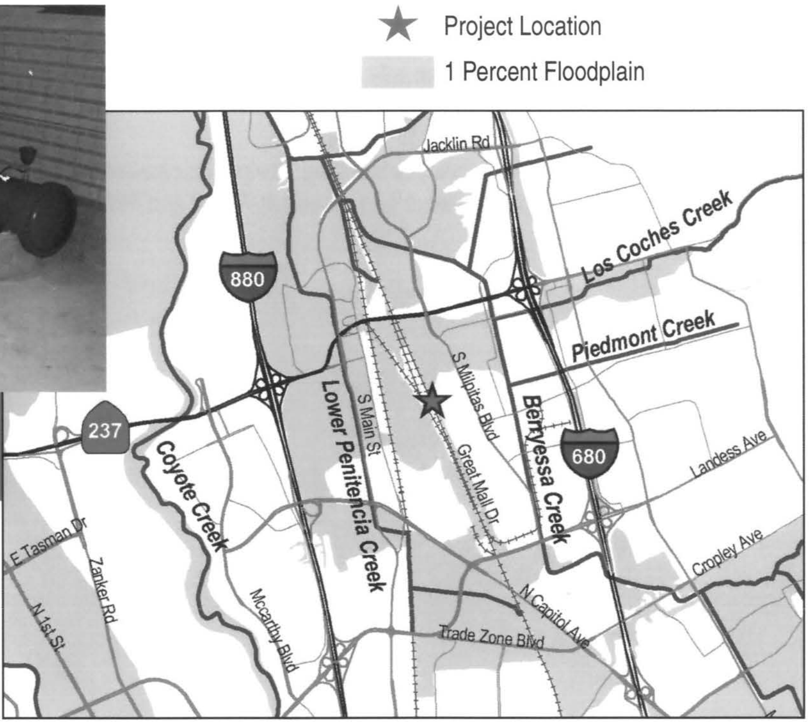
Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning											
	Design											
	Construction	▨										

COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
941901	SCVWD & SFWD Intertie	3,236	98	0	0	0	0	0	0	0	0	0	0	3,334

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.
Amount in the Cost Chart is District's share of the project only.

In terior of Intertie Pump Station.



POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
San Francisco Water Department

COST SHARING FORMULA
The cost-sharing formula is 50/50 with consideration for costs already spent by the District on upsizing the Milpitas Pipeline. A cost-share analysis will be done at the end of construction and any necessary adjustments will be made at that time.

REIMBURSEMENT SCHEDULE
Undetermined.

OPERATING BUDGET IMPACTS
A separate job number 941902 will be used to develop and manage the operational expenditures. The actual budget will vary widely depending on the use of the Intertie facility.

Treated Water Distribution Flow Meter

Project Number:
943702

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Improve accuracy of water delivery readings and billings.
- Identify distribution system problems more quickly.
- Improve access to flow meters for maintenance work.

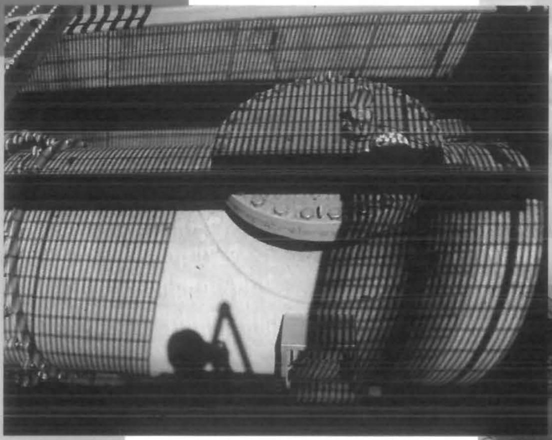
BENEFITS

Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction to replace plant effluent flow meters at RWTP and PWTP.

A 48-inch flow meter under a grate at Penitencia Water Treatment Plant.



An effluent flow and air valve at Penitencia Water Treatment Plant.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2006

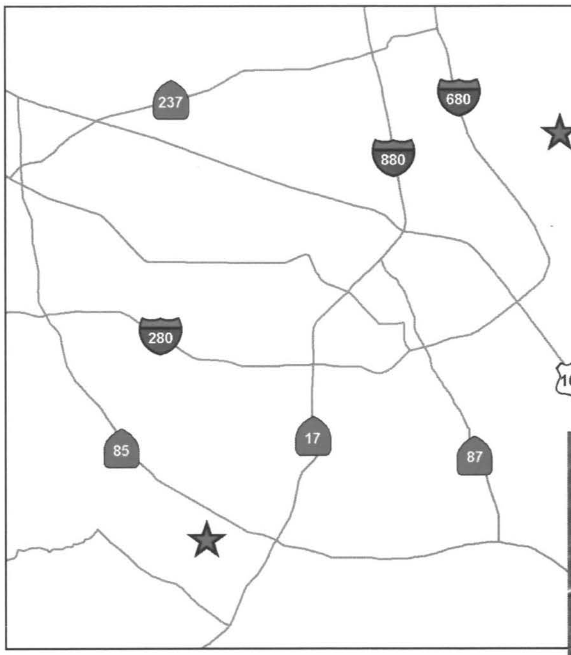
Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning		▨									
	Design			▨								
	Construction				▨							

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
943702	Treated Water Distribution Flow Meter	0	0	179	350	0	0	0	0	0	0	0	0	529

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



★ Project Location

Equipment in need of replacement on flow meter at Rinconada Water Treatment Plant.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

Department of Health Service

Compliance Treated Water System

Project Number:
943703

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Comply with Title 22 of California Code of Regulations to mitigate potential cross contamination on the treated water distribution pipelines.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy clean drinking water."
- Policy EL-7 - "Unnecessarily expose the organization, its Board, or staff to claims of liability."

SCOPE OF WORK

The scope of work includes planning, design and construction of modifications to the treated water distribution system to meet the project objectives. It is anticipated that the work will require venting of the air release valves or drainage of the vaults or replacement of failed or corroded equipment such as butterfly valves. Assume procurement over a three-year period and the District will do the intallation.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2003 to June 2007

Schedule	Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
	Planning		■									
	Design			■								
	Construction				■							

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Appropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
943703	DHS Compliance, Treated Water System	0	0	310	1,302	3,152	601	0	0	0	0	0	0	5,365

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

Existing rusted air flow valve for backwash at Penitencia Water Treatment Plant. This project will replace corroded equipment.

Penitencia Delivery Main Modulating Valve

Project Number:
943801

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- The objective of this project is to reduce and control pressure of the Penitencia Delivery Main to
  1. Increase the operational flexibility on the STWTP/PWTP Treated Water System by providing a greater range-ability on plant production
  2. Meet the commitment to provide up to 40 MGD of water to SFWD

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

This project is in the construction phase. Services include construction administration, inspection and engineering support.

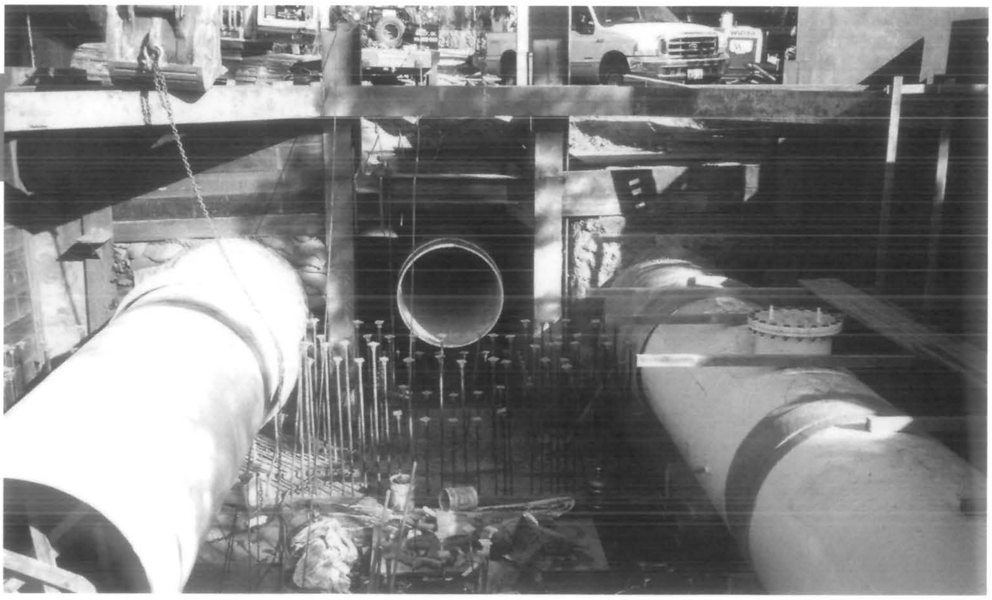
SCHEDULE

INITIATION AND COMPLETION DATES

January 2001 to September 2003

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design											
Construction	▨										



View of pipes.

COST

(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
943801	PWTP Modulating Valve	4,197	(64)	151	21	0	0	0	0	0	0	0	0	4,305

*Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

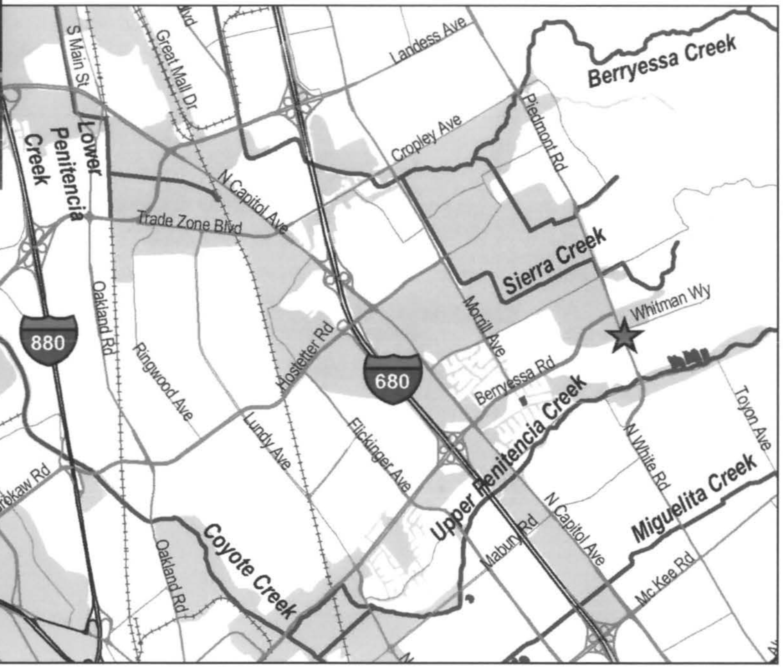
Finished Building.

POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated to be negligible, but will be determined in the near future.



★ Project Location

▨ 1 Percent Floodplain

Rinconada Reservoir Roof Rehabilitation

Project Number:
945002

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Provide protection against rainwater and debris entering the treated water stored in the reservoir.
- Retrofit the reservoir roof structure to comply with current seismic design requirements.
- Improve the drainage system to divert runoff away from the reservoir.

BENEFITS

- Policy E-2, Article 2.1 - "There is reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

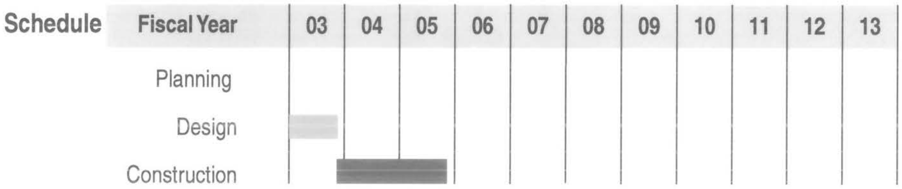
SCOPE OF WORK

Work includes planning, design, and preparation of construction documents, and construction for retrofitting and/or replacing the existing Rinconada Reservoir roof and support structures to meet current seismic design requirements.

SCHEDULE

INITIATION AND COMPLETION DATES

February 2000 to April 2005



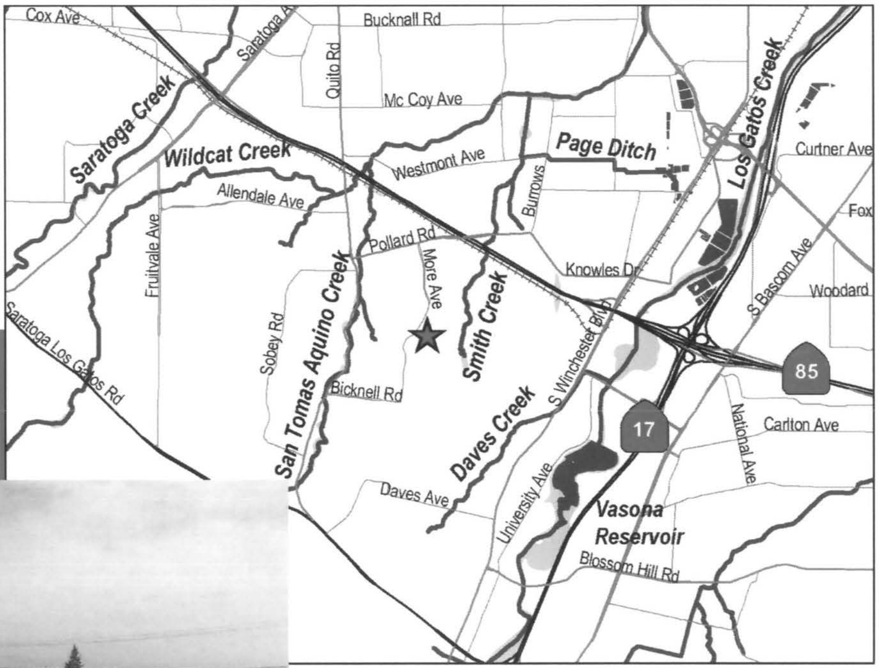
COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
945002	Rinconada Reservior Roof Rehabilitation	687	1,901	2,630	163	0	0	0	0	0	0	0	0	5,380

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
The costs to inspect and perform minor repairs to the new roof (inspection and minor preventive maintenance every three years) and the roadway around the reservoir (overlay every 15 years) are approximately $6,000 to $8,000 annually.



The Rinconada Water Treatment Plant reservoir's 30-year old corrugated metal deck roof.

Snell Pipeline
Cathodic Protection

Project Number:
948402

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

The goal of this project is to protect the Snell Pipeline from external corrosion by designing an active cathodic protection system as field data dictates.

BENEFITS

Policy EL-7 - "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides funds for the design and construction of an active cathodic protection system on the Snell Pipeline.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2000 to June 2004

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning											
Design	░										
Construction	▓	▓									

COST

(inThousands $)

Project		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
	Fiscal Year	91-03	03	04	05	06	07	08	09	10	11	12	13	
948402	Snell Pipeline Cathodic Protection	124	191	12	0	0	0	0	0	0	0	0	0	327

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

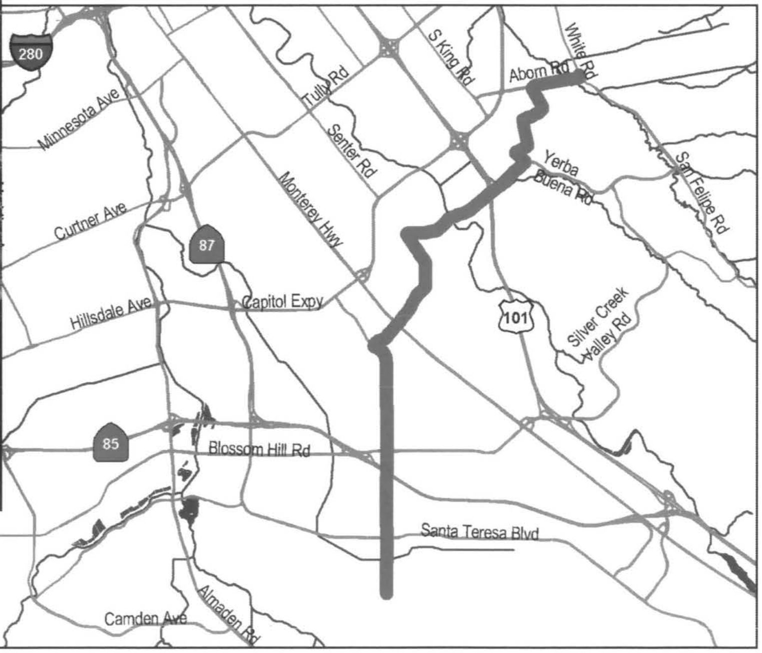
POTENTIAL COST SHARING

None

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated from the construction of this project.

Finding pipeline appurtenance.



West Side Distribution System Study

Project Number:
94C120

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Develop and conduct a comprehensive study including recommended alternatives for extending the West Pipeline.
- Respond to retailers; improve reliability of West Pipeline system.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

Prepare comprehensive study leading to recommendations for future planning, design, and construction of an extension and/or intertie to the San Francisco Hetch Hetchy transmission main.

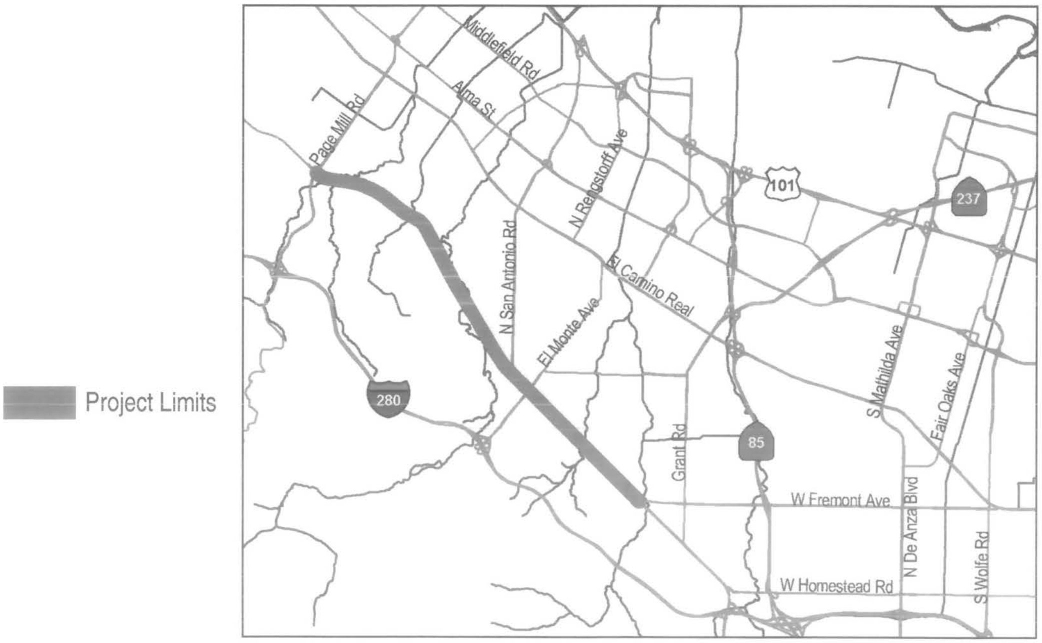
SCHEDULE

INITIATION AND COMPLETION DATES

July 2007 to June 2009
(Planning and design phases only)

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning						■					
Design							▒				
Construction											



COST
(inThousands $)

Project	Fiscal Year	Est. Actual* 91-03	Balance Remain* 03	Newly Appproprlated 04	Newly Appproprlated 05	Planned Budget Requests 06	Planned Budget Requests 07	Planned Budget Requests 08	Planned Budget Requests 09	Planned Budget Requests 10	Planned Budget Requests 11	Planned Budget Requests 12	Planned Budget Requests 13	Est. Total Cost
94C120	West Side Distribution System Study	0	0	0	0	0	0	300	200	0	0	0	0	500

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

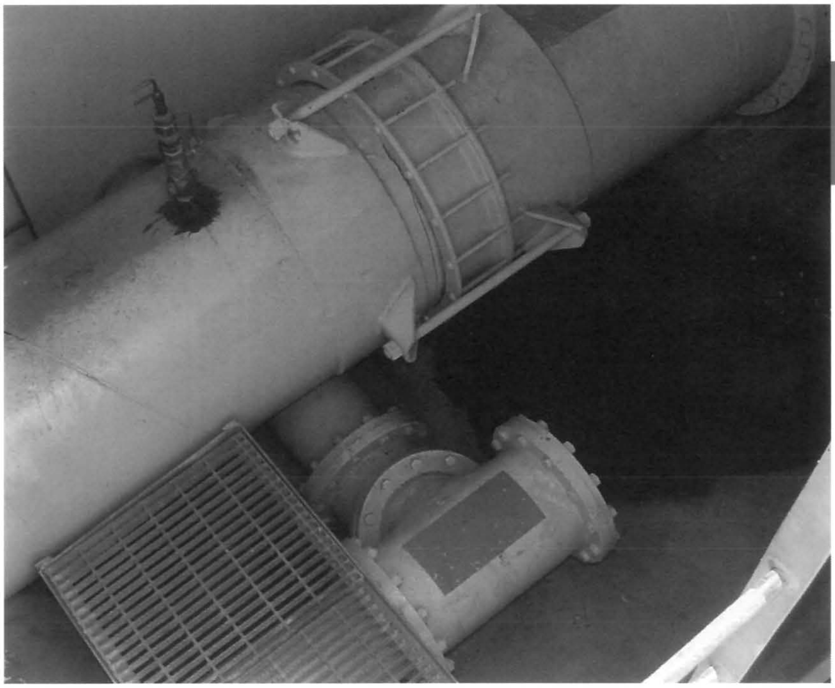
POTENTIAL COST SHARING
Yes

PARTNERING AGENCIES
Water retail agencies

COST SHARING FORMULA
To be determined

REIMBURSEMENT SCHEDULE
To be determined

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.



Turnout on existing West Pipeline.

West Pipeline Line Valves

Project Number:
94C121

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Install line valves to increase operational flexibility.

BENEFITS

- Policy E-2, Article 2.1 - "There is a reliable supply of healthy, clean drinking water."
- Policy EL-7 - "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Prepare planning and design for construction of: Two 8-inch, two 12-inch, one 60-inch, and two 48-inch line valves, manage construction, coordinate operational issues during construction.

SCHEDULE

INITIATION AND COMPLETION DATES

July 2008 to June 2011

Schedule

Fiscal Year	03	04	05	06	07	08	09	10	11	12	13
Planning							▨				
Design							▨				
Construction							▨	▨			

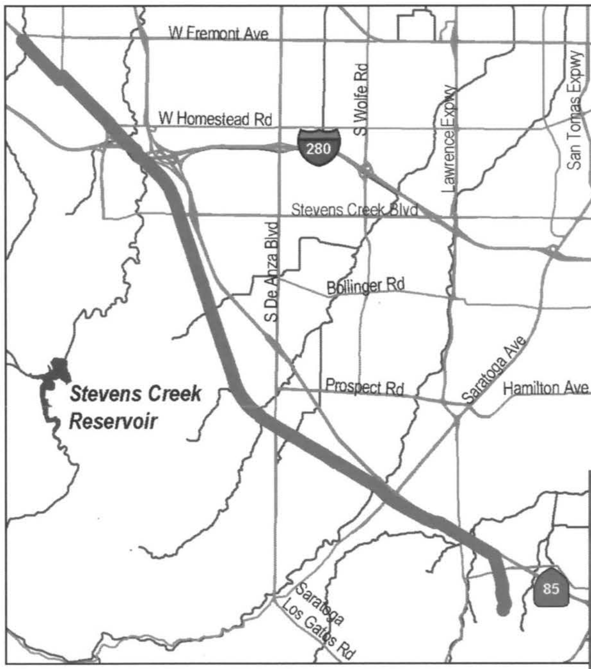
COST
(inThousands $)

		Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
Project	**Fiscal Year**	**91-03**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	
94C121	West Pipeline Line VaLves	0	0	0	21	0	0	0	285	188	1,891	0	0	2,364

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.

POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.



▨ Project Limits

A typical line valve used in water conveyance systems.

Parallel East Pipeline Tie-in

Project Number:
94C122

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

Provide a means to isolate both the East Pipeline and the Parallel East Pipeline from the east side treated water distribution system to facilitate routine and emergency maintenance of these facilities.

BENEFITS

- Policy E-2, Article 2.1.2 - "The water supply is reliable to meet current demands."
- Policy E-2, Article 2.1.3 - "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

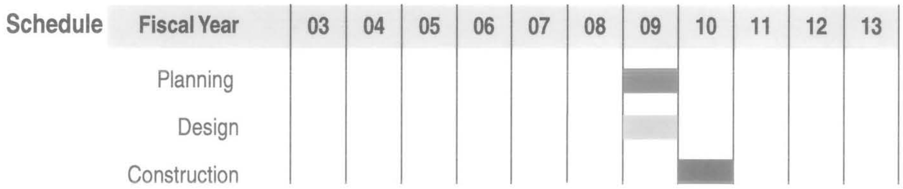
SCOPE OF WORK

- Planning Work - It is assumed that because this work consists of maintenance of existing facilities, an Engineer's Report will not need to be prepared for this project. However, it is assumed that the pre-design effort will include preparation of a Preliminary Design Report which documents operational and design criteria, constraints, and conceptual design.
- Design - Complete mapping and survey work, prepare construction plans and specifications, and secure permits/approvals from municipalities and utilities.
- Construct Project.
- Project Closeout.

SCHEDULE

INITIATION AND COMPLETION DATES

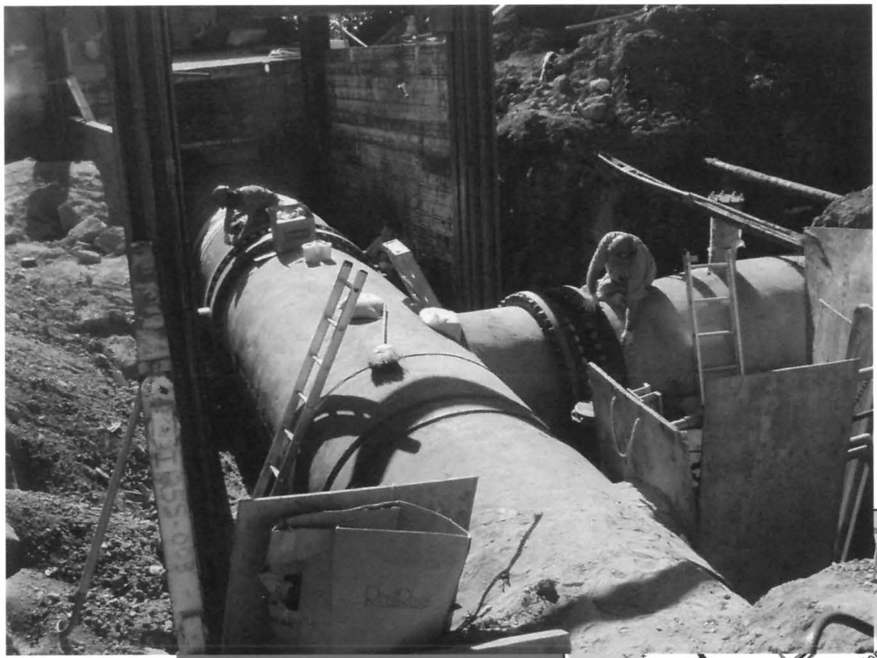
July 2007 to June 2010



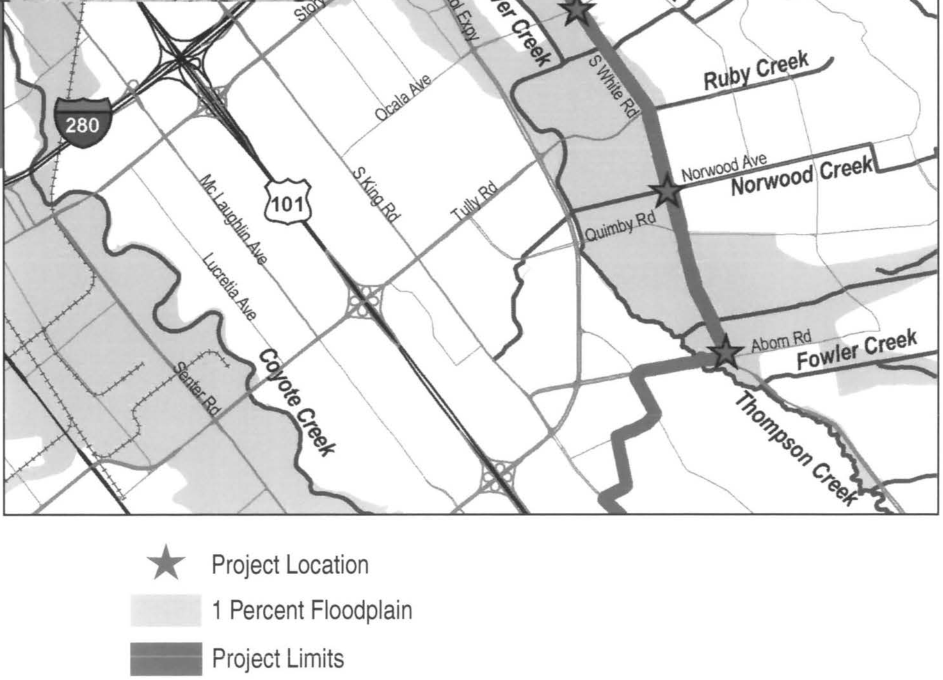
COST
(inThousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Apppropriated		Planned Budget Requests								Est. Total Cost
		91-03	03	04	05	06	07	08	09	10	11	12	13	
94C122	Parallel East Pipeline Tie-in	0	0	0	0	0	0	167	527	2,035	0	0	0	2,729

* Estimated as of: 5/31/03. Estimated Actuals inlcude project expenditures and encumbrances.



Shown: Tie in connection on the West Pipeline. Similar tie ins will be made to the Parallel East Pipeline to connect turnouts on the East Pipeline.



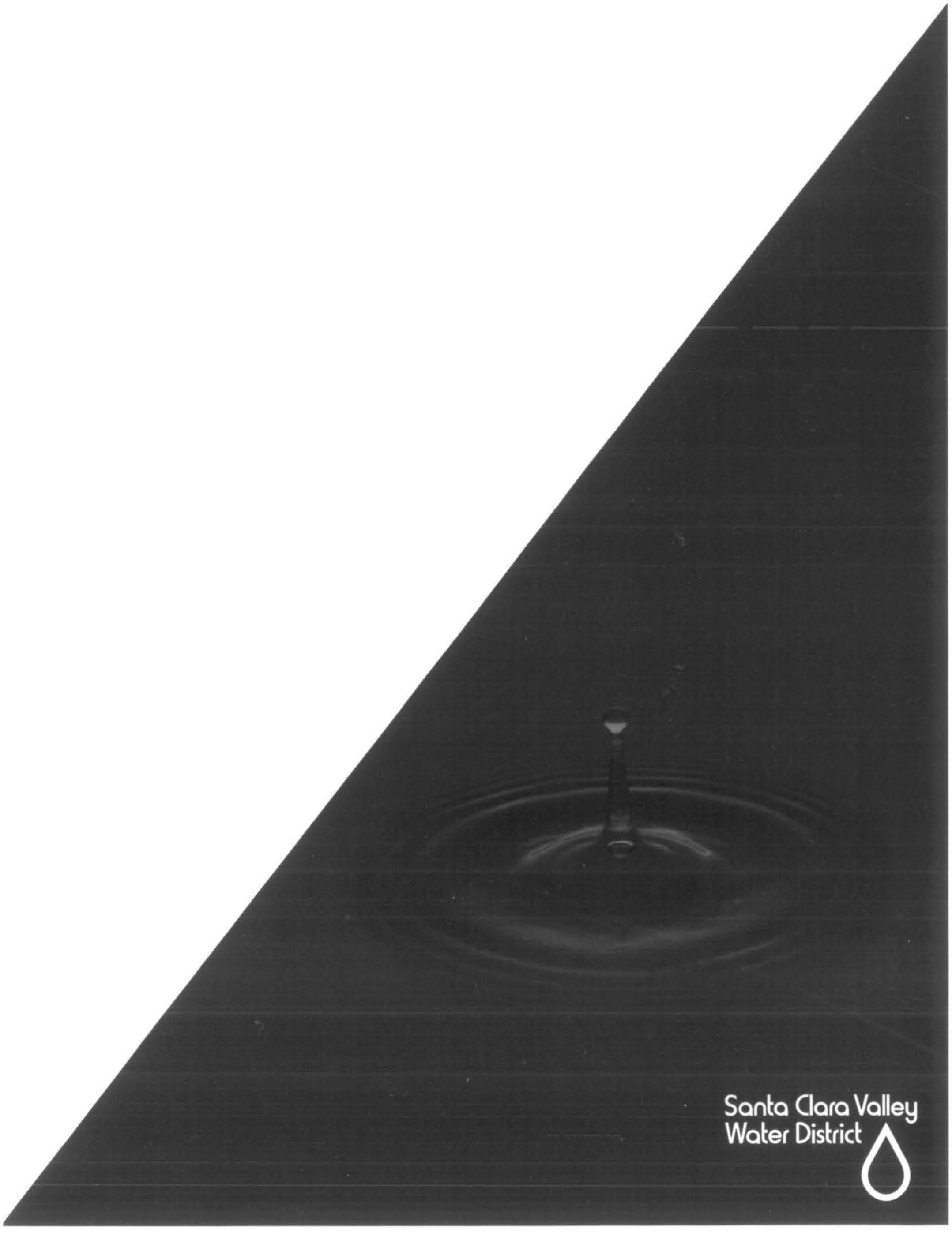
POTENTIAL COST SHARING
None

OPERATING BUDGET IMPACTS
Operating budget impacts are anticipated and will be determined in the near future.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Administration & General Cost Center



Santa Clara Valley
Water District

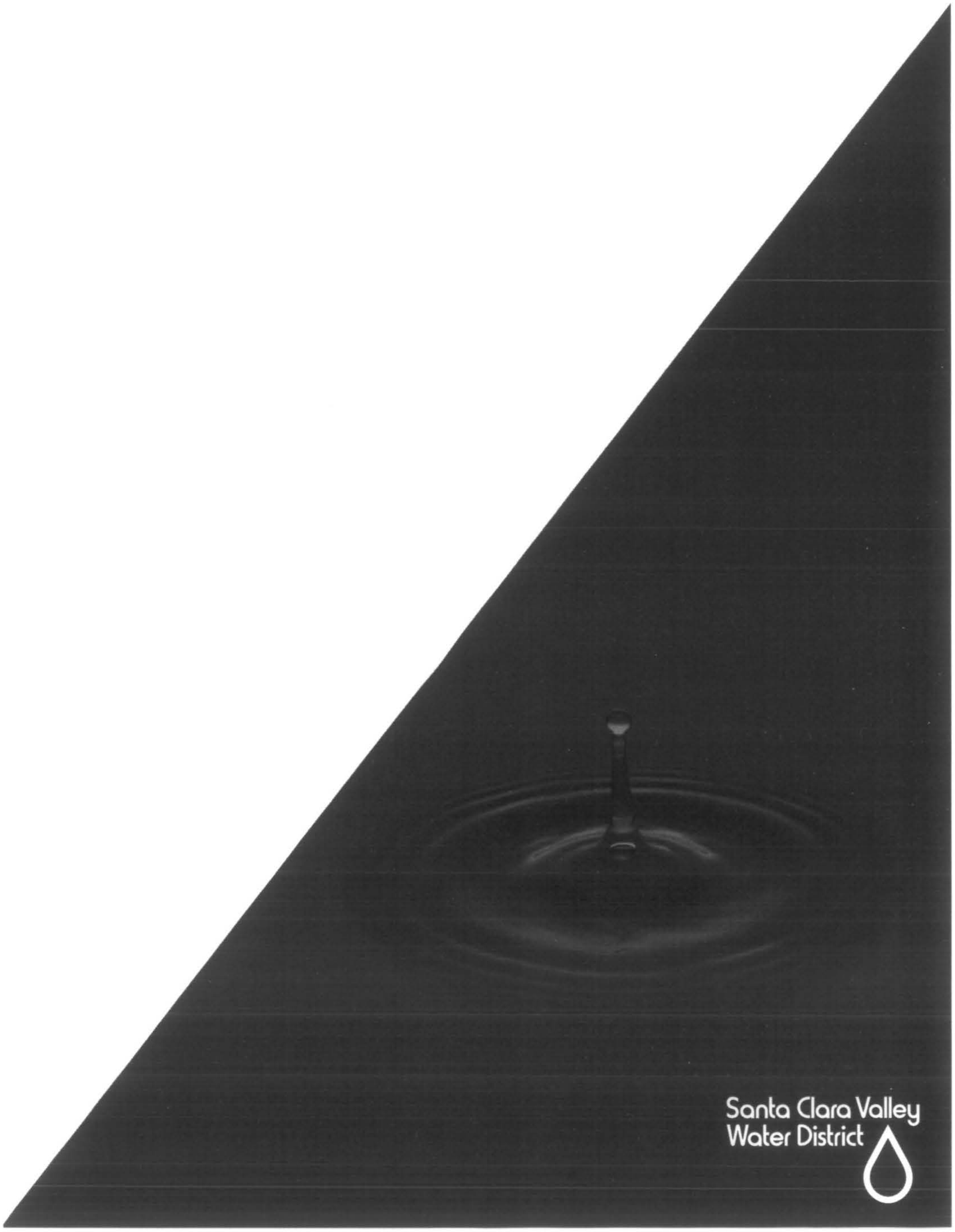
ADMINISTRATION & GENERAL

There are no capital projects planned for this cost center.

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2003/04 & 2004/05

Appendix



Santa Clara Valley
Water District

Appendix

Fund	A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.
General Fund	A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.
Grants	Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.
Levy	(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a governmental agency.
Long-Term Debt	Debt with a maturity of more than one year after the date of issuance.
Revenue	Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.
Revenue Bonds	Bonds whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.
Reserve	An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.
Sponsoring Division	Division where a capital project originates.
Operating Expenditure	Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these property components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature. Operating expenditures are often separated into fixed and variable costs for purposes of under standing operating leverage and structuring service charge rates.
Operations	Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight, however, they can be accomplished without the application of the full range of tools and processes used for managing projects.
Projects	At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and , at the District, are called Capital or Operating Projects, accordingly. Projects usually, but not always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Fiscal Year	A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.
Appropriation	An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.
Assessment	The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.
Asset	A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.
Ad Valorem Tax	A tax based on value (e.g., a property tax).
Benefit Assessment	Determination of the benefits derived from District activities within particular water sheds and levying a proportionate share of taxes to each parcel subject to voter- approved limitations.
Bonds	Bonds are a long-term source of debt that provide a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity dates(s), together with periodic interest at a specified rate.
Capital Expenditure	Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involves a major expenditure of District resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: Rehabilitation, Major Repairs, improvements/Betterments/ Upgrades, Replacements, Expansions/ Additions, and Ancillary Expenditures.
Capital Projects	Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the lives of assets, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.
Certificates of Participation (COPs)	A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.
CEQA	California Environmental Quality Act.
CIP	Capital Improvement Plan.
Cost Center	Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements. The first two digits of a project number identify the cost center.
DWR	State Department of Water Resources.
EIR	Environmental Impact Report.
Encumbrances	Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.
Enterprise Fund	Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private businesses where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis is financed or recovered primarily through user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expense incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.
Expenditure/ Expense	Decreases in net financial resources. Expenditures include current operating expenses requiring the present of future use of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility	Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.
Fixed Assets	Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Santa Clara Valley
Water District

5750 Almaden Expressway
San Jose, California 95118-3686
Tel: 408.265.2600
Fax: 408.266.0271

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